

Property of Steve L. Timme.

10050 - 12137a.

December 28, 1990 - May 22, 1995

Class of _____



56-907
Made in USA

Dec. 28, 1990. AL: Coffee Co., Limestone and Shale Gorges
of Mill Creek at Hwy 189 ca. 4.5 miles south of
Hwy 166.

w/ F. Bowers & J. Barker

10050.

On bark of log.

10051. Leucolejeunea

on trunk of Fagus sp.

10052.

On trunk of Fagus sp. m/w 10051

³
10053. Marchantia

on soil over verticle LS.

10054. Dumontiera hirsuta

on soil over verticle LS.

- 2
10055. Frullania
on bark of decaying Fagus trunk.
10056.
On soil of verticle shale.
10057.
On soil of verticle shale.
- 6
10058.
On thin soil over shale.
- 4
10059. Riccardia
on bark of decaying Fagus sp.
- 2
10060. Anthoceros
on wet verticle ts.

10061. Pallavicinia lyellii

on soil ~~soil~~ over wet verticle shale.

5

10062.

On wet verticle LS.

4

10063. Radula

On wet verticle LS.

6

10064.

On wet verticle shale.

1

10065. Polygonatum

10066. Radula

On soil at base of verticle shale.

10067.

8

10068.

On bark of Quercus sp.

10069.

On bark of Fagus sp.

10070. Radula

On soil over wet verticle shale.

8.

10071.

On wet verticle shale.

3

10072.

On wet verticle shale.

10073.

Growing over Dumortiera hirsuta.

10074.

On soil over ^{VS} (verticle, wet)

10075.

On soil over verticle, wet LS.

2

10076.

On soil over verticle, wet LS.

10077.

On soil over verticle, wet shale.

4

10078.

On verticle, wet shale.

62

10079.

On verticle, wet shale.

10080.

On bark of Quercus sp.

6

3

10081. Tissidens asplenoides

On wet verticle shale.

2

10082. Dicranella

(new species) On wet, verticle shale.

2

10083. Pallavicinia lyellii

On soil at margin of stream.

3

10084. Sphagnum

On soil at margin of stream.

Dec. 28, 1990. AL: Geneva Co. ca. 0.25 m. west of jct. 5 off Hwy 52. S27 TINR19E. Lowland swamp woods

w/ F. Bowers & J. Barker.

3

10085.

On bark of Quercus sp.

10086.

On bark of Quercus sp.

2

10087. Sphaerocarpos

On soil near swamp - in open.

2

10089.

On wet soil in woods at edge of swamp

10090.

On bark of Quercus sp.

10091 Pallavicinia lyellii

On soil in woods.

10092.

On bark of Quercus, sp.

10093 Riccardia

On dead wood in water.

10094.

3

10095. Porella pinnata L.

On base of trees just above water line in woods.

10096. Fossombronia

On wet soil near swamp.

4

10096a. Lygodium japonicum (Thunb.) Swartz
Climbing over other vegetation.

Dec. 28, 1990. AL: Geneva Co. ca. 2.0 miles NW of Thurston.

S26 T1N R22E. Hwy 4

Swamp woods.

W.F. Bowers & J. Barker

10097.

On bark of Quercus sp.

10098.

10099. Anthoceros

on wet soil near swamp.

10100. Nicromitrium

on wet soil in woods.

10101. Riccia

on wet soil in woods,

3
10102. Sphagnum

on wet soil in woods near swamp.

10103. Atrichum

on soil in woods. w/ sporophytes.

Dec. 28, 1990. AL: Geneva Co. ca. 2 miles west of jct. 167
off Hwy 4. Roadside. 536 T7N R23E

10104. Ephemerum

on soil of roadside.

10

2

10105.

On bark of Quercus sp.

10106.

On bark of Quercus sp.

10107. Frullania

on bark of Quercus sp.

10108.

On bark of Quercus sp.

10109.

On bark of Quercus sp.

Jan. 26, 1991. KS: Montgomery Co. SS ravine

10109a.

10109b.

10109c.

10109d.

Feb. 7, 1991. AL: Marion Co., Northfork Creek at Hwy 43 bridge ca. 3 miles N. of ~~Hannibal~~ junction 187 & 43 hwy. T9S R13W S33. Lat. $34^{\circ} 11'$
 Long. $87^{\circ} 53'$
 w/ bryology class

10110. Grimmia
 on exposed ss.

(1)

10111.

on trunk of Quercus sp.

(2)

10112.

on exposed ss.

10113. Climacium americanum
 on soil next to stream over ss.

Feb. 8, 1991. AL: Natural Bridge Park, ca. 1 mile west
 of juct. 4 & 278. T11S R10W S17 SW $\frac{1}{4}$.
 Long. $87^{\circ} 36'$ Lat. $34^{\circ} 4'$
 Deep ss ravine of Hemlock/Beech forest.
 w/ bryology class.

10114. Metzgeria
 on ss boulder.

10115.

on log.

10116.

on log.

10117.

on log.

10118. Frullania

on log.

10119. Frullania

on trunk of Beech.

10120. Trichocolea tomentella

on rock below overhang in drainage.

10121. Metzgeria

on vertical SS boulder.

10122.

On vertical SS boulder.

10123.

On vertical ss boulder.

10124. Metzgeria

On vertical ss boulder.

10125.

On base of tree.

10126.

Base of wet bluff.

10127.

On log.

10128.

On log.

10129.

On ss boulder

10130.

10131.

On beech.

10132. Forrestremia

on trunk of Magnolia grandiflora.

10133. Selaginella

on soil below ss overhang.

10134. Odontoschisma

on ss boulders.

10135. Fissidens

on ss boulder.

10136.

on ss boulder.

10137.

On ss boulder.

10138.

On ss boulders.

10139.

On ss boulders.

10140.

On ss boulders.

10141.

On trunk of tree.

10142. Lycopodium

On wet vertical SS.

10143.

On wet vertical SS.

10144. Fissidens
On wet vertical SS.
10145. Conocephalum conicum
On wet vertical SS.
10146.
On wet vertical SS.
10147.
On wet SS.
10148.
On wet SS.
10149.
On log.
10150.
On soil and rocks below SS overhang.

10151. Thelia

On trunk of Quercus sp.

10152.

On log.

10153. Spirhopon

On ss boulders.

10154.

On wet soil at base of bluff.

10155.

On log.

10156.

On log.

10157. Metzgeria

On ss boulder.

10158.

On SS.

10159.

On trunk of beech.

10160.

On SS boulders.

Feb. 8, 1991. AL: Franklin Co., ca. 1 mile N. of Hwy 172 at Co. Rd. 45 bridge across East Fork Creek. T8S R13W S17 SW¹/4. Long. 87° 56' Lat. 34° 20'. Deep SS ravine of hemlock/beech forest.

w/ bryology class.

10161. Sphagnum

On wet SS ca. 12 meters above stream.

10162.

On wet SS.

10163.

On wet vertical ss.

10164. Leucolejeunea

On ss boulder.

10165.

On log.

10166.

On dry ss boulder.

10167. Climacium

On sandy soil at stream margin.

10168.

On dry ss boulder.

10169.

On ss boulder along stream.

10170.

On ss boulders.

10171. Atrichum angustatum

on soil above stream.

10172. Scapania nemorosa

on wet ss overhang about 12 meters above stream.

10173. Bartramia pomiformis

on vertical ss rock.

10174. Mniumon soil ~~at~~ at base of tree near stream.

10175.

At base of Quercus sp.

10176.

On bark of Rhododendron sp.

10177. Sphagnum

on wet rock above stream.

10178.

On wet SS above stream.

10179.

On wet SS at base of bluff.

10180. Sphagnum

10181. Pellia

On wet rock along stream.

10182.

On log.

10183. Fruillaria

on SS boulders along stream.

10184.

On base of tree trunk.

10185.

On log.

10186.

On log.

10187.

10188. Dicranum scoparium

on soil ca. 12 M above stream.

10189.

On ss boulder.

10190.

On ss boulder.

10191. Metzgeria

On ss boulder.

10192.

On wet soil over ss.

10193. Pellavincinia lyelli:

On wet rock of ss.

10194.

On ss rock.

10195.

On ss rock.

10196. Fissidens

on wet rock.

10197.

On wet ss boulder.

10198.

On wet vertical SS.

10199.

On wet SS rock.

10200.

On Rhododendron sp.

10201.

Attached to rock in stream.

10202.

On wet ss boulder at edge of stream.

10203.

On SS boulder.

Feb. 9, 1991. AL: Marion Co., Northfork Creek at Hwy 43 bridge
ca. 3 miles N. of jct. 187 & 43 hwy. T9S R13W
S33. Lat. $34^{\circ} 11'$ Long. $87^{\circ} 53'$. Deep SS
ravine of Hemlock/Magnolia/Beech on ~~south~~ South
side of hwy.

10204. Sphagnum
On wet ss ledge above creek.

10205. Dumortiera
On wet ss at base of bluff.

10206. Fontinalis
Attached to rock in creek.

10207. Pellavincinia lyellii
On wet ss ledge.

10208.
On wet ss.

10209.

On wet ss.

10210. Fontinalis

On rock in stream.

10211.

On wet rock.

10212.

On trunk of beech.

10213.

On wet rocks and spring at mouth of small cave.

10214. Sphagnum

On wet soil at margin of stream.

10215.

On trunk of Magnolia sp.

1021b. Sphagnum

On rocks at entrance of cave.

10217.

On wet rock ~~at~~ at entrance of cave.

10218.

On ss ledge of bluff.

10219.

Attached to base of boulder in creek.

10220. Lycopodium

On ledge of ss boulder.

10221.

On beech.

10222

10223.

On decaying log.

10224.

On base of tree.

10225.

On wet ss boulder.

10226. Leucobryum

On ss ledge.

10227.

On wet ss.

10228.

On base of cedar.

10229.

On wet ss.

10230.

On vertical SS.

10231.

On moist, vertical SS.

Feb. 9, 1991. AL. Franklin Co., ca. 0.75 mile west of hwy 43
 off Co. Rd. #8. T.8S R.12W S.24. Dismals Wonder
 Garden
 Lat. $34^{\circ}19'$
 Long. $87^{\circ}47'$
 Deep SS ravine of hemlock / Magnolia / Beech Forest.

10232. Mnium

on base of tree.

(2)

10233. Aulacomnium

On wet SS.

(2)

10234. Dumontiera

On wet SS.

(2)

10235.

On wet vertical ss.

(5)

10236. Sphagnum

on wet ss ledge.

(3)

10237. Ditrichum pallidum

On disturbed soil

(2)

10238. Frullania

On ss boulder.

(1)

10239. LeucolejeuneaOn Prunus caroliniana

(4)

10240. Thuidium

On soil over ss.

(1)

10241. Leucodon

On

(1)

10242.

In crevice of sandstone rock.

(2)

10243. Entodon seductrix

Rotting tree trunk.

(1)

10244.

Rotting tree trunk.

(3)

10245. Thelia

On oak.

(4)

10246. Reboulia hemisphaerica

On soil

(1)

10247.

On Quercus sp.

(1)

10248.

On wet Sandstone

(2)

10249.

On moist tree trunk.

(1)

10250. LejeuneaOn Flex opaca.

(2)

10251. Plagiochila

On wet, shaded SS.

(1)

10252. Trichocolea tomentella

On moist soil along stream

(1)

10253.

On moist log.

(1)

10254.

On moist sandstone

(2)

10255.

At base of tree over roots.

(2)

10256.

At base of tree over roots

(2)

10257. Metzgeria

On SS.

10258. Leucobryum

Base of tree.

(1)

10259.

On moist log.

(2)

10260.

On moist soil.

(1)

10261.

On moist SS.

(3)

10262.

On top of rotting

(1)

10263.

On top of rotting post.

(1)

10264.

On SS.

(1)

10265. Dumortiera

On wet SS.

(4)

10266. Jubula

On vertical SS.

(4)

10267. Odontoschisma

On moist SS.

(1)

10268.

On SS.

(4)

10269. Bartramia pomiformis

On SS.

(4)

10270. Pellia epiphylla

On moist, shaded SS, beneath ledge.

(2)

10271. Anomodon

On base of tree.

Feb. 10, 1991. AL: Colbert Co. Buzzard's Roost Spring off Natchez Trace at jct. 72. T4 R14W S32 Lat. $34^{\circ}32'$ Long. $88^{\circ}01'$. Spring Area.

8

10272. Porella pinnata L.

Attached to rocks in spring.

4

10273. Fissidens fontanus (B. Py l.) Steud.

Attached to stone wall in water.

3

10274. Amblystegium tenax (Hedw.) C. Jens.

Attached to stone wall in water.

2

10274a. Brachythema subulatum (P.-Beaup.) Schimp. ex Card.10275. Porella platyphylla (L.) Pfeiff.

Attached to rock of 15 outcrop.

10276. Frullania eboracensis Gott.
On log.

10277. Platygyrium repens (Brid.) B.S.G.
On log.

10278. Frullania inflata Gott.
on rail fence.

Feb. 16, 1991. KS: Montgomery Co., Montgomery County State
Lake ~ 3.0 miles south of Independence.
T33S R16E S19.

w/ Joyce Barker

10279. Hedwigia ciliata
On exposed SS.

10280. Grimmia
On exposed SS.

10281. Thelia lescuri

On SS at edge of soil.

10282.

On bark of log.

10283.

on SS of overhang.

10284.

On SS.

10285 Anomodon

On bark at base of tree.

10286.

On soil over exposed SS.

10287. Funaria

On soil along roadside.

10288. Mnium

On soil in woods.

10289.

On soil below SS overhang.

10290. Orthotrichum

on Blackjack Oak.

10291.

On sandy soil over SS.

10292.

On moist soil over sandstone.

10293.

On exposed sandstone.

10294.

On sandstone rocks.

10295.

On sandstone rocks.

10296.

On sandstone rocks.

Feb. 21, 1991. KS: Neosho Co. just north of Chanute ^{west} off
highway 169. In bottomland wooded area near
Village Creek. S17 R17E T27S
lat $37^{\circ} 40' 02''$ long. $95^{\circ} 20' 57''$

10296a. Nowellia curvifolia (Dicks.) Mitt. on log.

Feb. 24, 1991. KS: Montgomery Co. Ca. 2 mile SE of Independence. T33S R16E S17. Sandstone bluffs and ravine of oak/hickory woods.
w/ Bryology Class.

10297.

On soil over sandstone.

10298.

On SS rock.

10299. Funaria

on crack of SS rock.

10300. Riccia

On soil over exposed SS.

Feb. 24, 1991. KS: Montgomery Co. Montgomery County State Lake, ~ 3.0 miles south of Independence.
T33S R16E S19
w/ Bryology Class

10301.

On SS at edge of vegetation.

10302.

On soil over ss rock.

10303.

On soil over exposed ss.

10304.

On vertical ss overhanging lake.

10305.

On vertical ss near lake.

10306.

On moist vertical ss.

Feb. 24, 1991. Cherokee Co., Nelumbo lutea pool near
Lightning Creek. T31S R22E S21. Along Hwy 160.

w/ Bryology class.

10307. Riccia

Stranded in mud and floating in water.

Feb. 22, 1991. KS: Crawford Co.; Edge of strip pit.
Disturbed.

⁴
10308. Funaria americana Lindb.

On soil of burned area near Strip pit.

Feb. 28, 1991. KS: Cherokee Co. State owned strip
pit land approx. 2.0 km east of Hwy 7 and
ca. 1.6 km south of Scammon. T32S R24E S17.

²
10309. Fissidens taxifolius Hedw.

On moist soil near pits.



^{3*}
10309a. Lophocolea bidentata (L.) Dumort.

*

10310. Leskeia gracilescens Hedw.

Base of tree.

10

10311. Sphagnum

Edge of Strip pit.

*
⁴

10312. Calypogeia muelleriana (Schiffn.) K. Muell.

10313. Sphagnum

Submerge in Strip pit.

2

10314. Chiloscyphus pallescens (Ehrh.) Dum.

On soil near edge of strip pit.

*

10315. Aulacomnium palustre (Hedw.) Schwaegr.

On soil near strip pit.

4

10316. Sphagnum

Edge of strip pit.

2 10316a. Pallavicinio lezelli

10317. Fissidens taxifolius Hedw.

On soil of pit slopes.

~~10317a.~~

Feb. 28, 1991. KS: Crawford Co. In Taylor Branch north of bridge bordering the north portion of Cherokee County. T31 S R25 E S14.

2

10318. Fissidens fontanus. (B. Pyl.) Steud.

On roots of Acer Saccharinum and rock wall.

Feb. 28, 1991. KS. Crawford Co., Taylor Branch ~ 1 Km N of Cherokee/Crawford County line on Opolis road (Lee Hunt Road) at Bridge.

10319.

Feb. 28, 1991. KS. Cherokee Co., Taylor Branch at bridge
 ca. 3.25 km south of hwy 57/160 and 0.4 km
 east on county gravel road. T31S R25E S26.

10320. Fontinalis

In water on exposed roots and shale in silty water.

March 16, 1991. KS: Wilson Co., Spring

10321. Weissia controversa Hedw.

On limestone outcrops in abandoned pasture.

10322. Marchantia domingensis Lehm. & Lindenb.

On rocks along spring near mouth.

² 10323. Leskeia gracilescens Hedw.

Base of Macromia pomifera

² 10324. Orthotrichum pumilum Sw.

On bark of Quercus sp.

- ² 10325. Amblystegium tenax (Hedw.) C. Jens.
Attached to rock in spring branch.
- ² 10326. Gary
- ³ 10327. Orthotrichum strangulatum P.-Beauv.
On limestone outcrops.
- ³ 10328. Grimmia laevigata (Brid.) Brid.
On limestone outcrops.
- ^{4*} 10329. Fissidens fontanus (B.-Pyg.) Stend.; In spring mouth.
- ³ 10330. Amblystegium tenax (Hedw.) C. Jens.
Attached to rocks in spring mouth.
- ^{2*} 10331. Amblystegium tenax (Hedw.) C. Jens.
On wet rocks near spring branch.
- * 10332. Marchantia domingensis Lehm. + Lindemb.
On limestone rocks along spring branch.

April 11, 1991. KS: McPherson Co. along RR tracks
near Bethany College.

w/ Hermann Nonnenmacher

³ 10333. Chorispora tenella (Pall.) DC.

April 11, 1991. KS: Ellsworth Co., Along roadside leading
into Kanopolis Lake and off trail and
along streamside.

w/ Hermann Nonnenmacher

³ 10334.

on sandy soil at base of tree.

¹ 10335.

On sandy soil over rock.

² 10336.

On sandy soil over rock.

10337.

On sandy soil over rock.

2
10338.

On sandy soil over rock.

2
10339.

Along waterway.

10340.

On bank ^{along} ~~only~~ waterway.3
10341

On bank along waterway.

April 13, 1991. NO: McDonald Co. Park along streamside
in Noel.

2
10342. Phacelia

In floodplain woods. Abundant

April 29, 1991. KS: Wilson Co.

w/ Joyce Barker & Biology Club.

^z 10343. Riccia

on soil along trail to pond.

¹ 10344. Conocephalum conicum

on soil below ss overhang.

^z 10345.

on soil over ss boulders.

^z 10346

On soil over ss boulders.

May 5, 1991. KS: Crawford Co., O'Malley Prairie.

10347. Tradescantia

10348.

10349. Psoralea

10350. Baptisia

10351. Valarinella

10352. Panicum

10353. P Antennaria

10354.

10355.

²
10356.

10357. Camassia

10358. Tripsacum dactyloides

10359. Lobelia spicata

10360. Asclepias

10361. Castilleja coccinea

10362.

10363.

10364.

10365.

10366.

10367.

10368.

10369.

May 5, 1991. KS: ^{Crawford Co.} Monahan Prairie.

10370.

10371. Callirhoe

10372. Baptisia

10373. Asclepias

10374. Psoralea

10375.

10376.

10377. Valerinella

10378. Allium

10379. Tradescantia

10380.

10381. Nothoscordum

10382.

10383.

10384.

10385. Oxalis

10386. Allium

10387. Panicum

10388.

10389.

May 11, 1991. KS: Crawford Co. O'Malley Prairie.

w/ C. Timme & Z. Timme

10390. Psoralea

10391. Valerinella

10392. Lobelia spicata

10393. 1

10394.

10395. Melilotus

10396.

10397. Potentilla

10398. Scutellaria

10399. Callirhoe

10400. Hypoxis

10401.

10402. Tradescantia

10403. Dactylus

10404. Panicum

10405.

10406. Oxalis

10407. Krigia

May 11, 1991. KS: Crawford Co. ~~Monohan~~ Natural Prairie.

W.C. Timme & Z. Timme

10408. Psoralea

10409. Oxalis

10410. Scirpus

May 19, 1991. KS: Crawford Co. O'Malley Prairie

10411. Rosa

10412. Penstemon

10413. Erigeron

10414. *Dacus*

10415. *Platanthera*

10416. *Shrankia*

10417.

10418. *Plantago*

10419.

10420.

10421.

10422. *Panicum*

10423.

May 19, 1991. KS: Crawford Co.; Monohan Natural Prairie.

10424. *Ruellia*

10425. Rosa.

10426. Schrankia

10427. Penstemon

10428. Daucus

10429. Erigeron

10430. Lobelia spicata

10431. Panicum

10432.

10433.

June 2, 1991. KS: Crawford Co. O'Malley Prairie
Ca. 3.0 miles SW of Pittsburg, 3.0 miles South of Hwy 126.
T 31S, R 24E S 10.

10434. Asclepias tuberosa

10435. Panicum

10436.

10437. Rubbeckia10438. Pentstemon10439. Erigeron10440. Physostegia10441. Echinacea10442. Erigeron10443. Melilotus10444. Cacalia10444 a. Phacelia gilioides Brand

June 2, 1991. KS: Crawford Co. Monahan Prairie

10445.

10446. Penstemon

10447. Setaria

10448.

10449. Physostegia

10500. Asclepias tuberosa

10501. Baptisia

10502. Cacalia

June 5, 1991. KS: Crawford. PSU ballfields. Along fence.

w/ Caleb Timme

10503. Bryum argent

June 15, 1991. MO: Ozark Co., Caney Mt. Refuge. Ca. 6 miles north of Gainesvilles off Hwy (mo) 5. T23N R14W S1.
Lat. $36^{\circ} 41' 0''$ Long. $92^{\circ} 27' 0''$

w/ Garland Owens

10504. *Conocephalum conicum*

On sandstone along small stream.

10504a. *Centaurium texense* (Grisel.) Fern. on limestone outcrops.

10505. *Frullania*

On *Quercus* sp.

June 22, 1991. MO: Greene Co. Spring area of Fantastic Caverns.

10506. *Conocephalum conicum*

On moist rocks below spring.

conf.

Nov. 1, 1991. MS: Oktibbeha Co. along old hwy 82
ca. 4.0 miles east of jct. 82 (new hi-way).
526 R15E T19N $88^{\circ} 42'$ long. $33^{\circ} 27'$.

10506a. *Andropogon glomeratus* (Walt.) B.S.P.

10506b. *Baccharis halimifolia* L.

June 26, 1991. KS: Jefferson Co., Nelson Environmental
Study Area of ~~the~~ KU Ecological Reserves.
R20E T11 S 533

10507. Frullania inflata Gott.

On Ulmus sp.

Abundant Unit 4018

10508. Platydictya confervoides (Brid.) Crum

On limestone boulder Unit 4018

10509. Fabronia ciliaris (Brid.) Brid.

on Ulmus americana Unit 4018

10510 Frullania inflata Gott. On Quercus sp.

in unit 3011.

10511. Frullania squarrosa (Reinw., Blume + Nees) Nees

On Tilia americana. Unit 4018

10512. Leskeia gracilescens Hedw. On log. Unit 4018

10513. Homomallium adnatum (Hedw.) Broth. on limestone
boulder. Unit 4018

10514. Frullania inflata Gott. On Ulmus americana at
base. Unit 4018

10515. Frullania squarrosa (Reinw., Blume & Nees) Nees.
On sandstone rock. Unit 4018.

10516. Radula obconica Sullivan. on base of
Quercus sp. Unit 4018

10517. Frullania brittoniae Evans. on bark of
Quercus sp. Unit 3011

10518. Frullania inflata Gott. on Juglans nigra
Unit 3011.

June 26, 1991 KS: Jefferson Co., Prairie in part of
the Rockefeller Experimental Tract of the KU
Ecological Reserves. S33 R 20E T 11S.

10519. Phaeoceros laevis (L.) Prosk. on moist soil.
Unit 3001.

10520. Asterella tenella (L.) Beauv. on moist soil.
Unit 3001.

10521. Riccia beyrichiana Hampe on moist
Soil. Unit 3001.

10522. Riccia lamellosa Raddi on soil. Unit 3001

10523. Steerecleus serrulatus (Hedw.) Robins.
Unit 3001

July 3, 1991 : KS. Douglas Co., Baldwin Woods Research
Area of KU Ecological Reserves. S28 R20E T14S.

10524. Thuidium delicatulum (Hedw.) Schimp. in B.S.G.
On soil of dry, rocky north slope.

10525. Bryhnia graminicolor (Brid.) Grout on soil

10526. Atrichum undulatum (Hedw.) P. Beauv. on
rocky soil of North Slope.

10527. Dicranum scoparium Hedw. on dry, rocky soil.

10528. Ditrichum pallidum (Hedw.) Hampe on dry,
rocky soil.

10529. Taxiphyllum taxirameum (Mitt.) Fleisch.
On side of abandoned well in dense woods.

10530. Platygyrium repens (Brid.) Schimp. in B.S.G.
On decorticated log across stream bed.

10531. Campylium hispidulum (Brid.) Mitt. on soil.

³
10532. Leucobryum glaucum (Hedw.) Ångstr. in Fries
On rocky soil of south slope.

10533. Polytrichum commune Hedw. on dry, rocky
soil of south slope.

10534. Hypophila involuta (Hook.) Jaeg. On small rock
in stream bed.

10535. Bryohaplocladium virginianum (Brid.) Wat. + Twats.
On soil in rocky woods.

10536. Bryohaplocladium microphyllum (Hedw.) Wat. + Twats.
On soil of rocky woods.

²
10537. Frullania inflata Gott. on Quercus alba.

10538. Lophocolea bidentata (L.) Dum. on soil of
rocky slope.

10539. Frullania squarrosa (Reinw., Blume + Nees) Nees
On Platanus occidentalis.

10540. Frullania inflata Gott. On Ulmus americanus
fallen across dried stream bed.

- ²10541. Cephaloziella rubella (Nees) Douin
on exposed soil in opening of woods.
Partially shaded.

camp
Dec. 1, 1992. KS: Wilson Co. Delaware Springs. North of Hwy
96 ca. 0.50 mile. S. 8 T 28 S R 14 E.
and w. of jct. 39 + 96 ca. 3.5 miles.

10542. Lophocolea heterophylla (Schrad.) Dum. On soil
33339 along intermittent stream.

- ³ 10543. Reboulia hemisphaerica (L.) Raddi on rocky soil.

- 4 33358
10544. Phaeoceros laevis (L.) Prosk. on soil over
3 36359 sandstone rock above spring mouth.

- ³ 10545. Hedwigia ciliata (Hedw.) P. Beauv. on sandstone boulder
33348 *33340*

- 10546 *Frullania inflata* Gott. On bark of *Quercus*.
3334* 33341

10547. Entodon seductrix (Hedw.) C. Müell. on soil at
base of tree.
33342

cont
Along roadside.

Dec. 27, 1991. OK. Craig Co. 2.0 m. north of Hwy. 10 and
ca. 11.5 m. w. of Welch. S. $\frac{4}{9}$ T28N R19E
w/F. Bowers & H. Nonnenmacher 95°19' Long 36°55' Lat.

10548. Fissidens bryoides Hedw. On sandstone rock.

33329 mixed w/ 10549.

10549. Cephalozia hampeana (Nees) Schiffn. ex. Loeske

33330 On sandstone rock mixed w/ 10548.

10550. Fissidens taxifolius Hedw. on shaded soil.

33331

10551. Entodon seductrix (Hedw.) C.M. on shaded soil.

33332

10552. Leskeia gracilescens Hedw. On bark at base of

33333 Quercus sp.

10553. Campylium chrysophyllum (Brid.) J. Lange. On sandstone
33334 rock.

10554. Mnium cuspidatum Hedw. On shaded soil.

33335

Dec. 27, 1991. OK: Craig Co. Along roadside 2.0 m N. of Hwy 10

and ca. 12.5 m. w. of Welch. S. $\frac{4}{9}$ T28N R19E 95°19' Long

w/F. Bowers & H. Nonnenmacher 36°55' Lat

10554a. Frullania inflata Gott. On bark of Quercus.

33336

camp.

Dec. 27, 1991. OK: Washington Co. Washington Cove at Copan
Lake - Park Area. Sec. 17 T28N R13E.

w/ F. Bowers & H. Nonnenmacher

2

10555. Riccia sullivantii Aust. , on damp soil near margin
33364 of Lake.

3

10556. Reboulia hemisphaerica (L.) Raddi. on soil and
33315 over sandstone rocks in park & campground.

2

10557. Riccia beyrichiana Hampe ^{Lehm.} on
33316 rocky soil in woods of campground.

1

10558. Bryum argenteum Hedw. on rocky soil in
33317 campground.

10559. Barbula unguiculata Hedw.

10560.

34

10561. Mnium cuspidatum Hedw. On soil in campground
33318

10562. Ditrichum pallidum (Hedw.) Hampe on disturbed
33319 soil of campground.

10563. Riccia sorocarpa Bisch. On sandy, rocky soil
33320 of campground.

10564. Entodon seductrix (Hedw.) C.M. on rocky soil of
33321 campground.

2 10565. Amblystegium varium (Hedw.) Lindb.
33322 on rocky, sandy ground.

10566. Leskeia on base of Quercus.
33323

10567. Frullania inflata Gott. on bark of Quercus.
33324

10568. Frullania eboracensis Lehm. on bark of Quercus.
33325 w/ perianths.

10569. Orthotrichum pumilum Sw. on bark of
33326 Quercus.

3 10570. Atrichum angustatum (Brid.) BSG. On soil.
33327

10571. Campylium hispidulum (Brid.) Mitt. In fissures
33328 of bark of Quercus.

Jan. 8, 1992. OK: Wood Co. Along roadside off hwy 64
 ca. 1.0 miles ^{south} ~~west~~ of jct. 14 & 64 near Freedom.
 T26N R18W S10.

w/ F. Bowers

10572. Tortella humilis (Hedw.) Jenn. on soil.

Jan. 8, 1992: OK: Woodward Co., Boiling Springs State Park. T23N R20W S23.

w/ F. Bowers

³ 10573. Pyramidula tetragona (Brid.) Brid.

On disturbed soil near boiling springs trail. S23

² 10573. Anomobryum filiforme (Dicks.) Solms in Rabenh.

on disturbed sandy soil along trail mixed

w/ 10573. S23

10574. Weissia controversa Hedw.

on disturbed soil near boiling springs. S23

Jan. 9, 1992. OK: Alfalfa Co. Great Salt Plains State Park. Coon Hollow, ca. 0.8 km west of hiway 38. T26N R9W S11. Lat. $36^{\circ} 00'$ Long. $98^{\circ} 07' 50''$.

w/ F. Bowers

³ 10575. Reboulia hemisphaerica (L.) Raddi.
on soil.

10576. Campylium hispidulum (Brid) Mitt.
on soil w/ 10575

10577. Frullania inflata Gott. On Quercus sp.

10578 Orthotrichum pumilum Sw. On Quercus sp.

Jan. 9, 1992. OK: Alfalfa Co. at Hwy 38 bridge of Salt Fork ca. ~~near~~ 2.4 km east of Great Salt Plains State Park. T26N R9W S12.
Lat. $36^{\circ} 45'$ Long. $98^{\circ} 07' 30''$

w/ Frank Bowers.

10579. Alonia rigida (Hedw.) Limpr. on soil.

10580. Anomobryum filiforme (Dicks.) Solms in Raben h.
on soil.

March 12, 1992. Al. Monroe Co. Claiborne Landing off H. 84
 Seeping L.S Ravine parallel with Alabama River. Along ^{ca. 25'} in west of
 intermittent stream off Mill Creek.
 Claiborne.
 w/ Bruce Robinson R4E T7N S20

(6)

10581. Conocephalum conicum

On soil along intermittent stream.

(1)

10582.

On Fagus

(1)

10583.

On dead branch overhanging intermittent stream.

(2)

10584

On magnolia.

(1)

10585.

On Acer sp.

(3)

10586. Marchantia

On soil.

(2)

10587. Riccardia

On decaying log.

(3)

10589. Dumortiera hirsuta

On limestone bank wall.

(2)

10590. Frullania

On barkless log.

(2)

10591. Marchantia

on verticle wet bluff.

(1)

10592. Frullania

On log.

(2)

10593.

On log.

(1)

10594. Riccardia

on barkless log.

(1)

10595. Porella

on branch overhanging stream.

(2)

10596.

On Stump at edge of stream.

March 12, 1992. AL: Baldwin Co., ca. 1.5 m. North of
I65 at Flat Cr. off Al. 59. R3E T1S S11,
Lat. $30^{\circ}30'$ long. $87^{\circ}50'$. w/ B. Robinson

(1)
10597.

On tree base in swampy area.

(1)
10598.

On tree base in swampy area.

(1)
10599.

On tree base in swampy area.

(2)
10600.

On soil beneath bridge.

March 10, 1992. AR:

Mammoth Springs - picnic area.

10601.

New Oak on open grassy ground.

March 10, 1992. AL: Franklin Co. Ca. 0.75 mile west of Hwy 43
off Co. Rd. #8. Dismals Wonder Garden.
T8S R12W S24 Lat. $34^{\circ} 19'$ Long. $87^{\circ} 47'$
Deep Sandstone ravine of beech/Magnolia/hemlock
forest.

(5)

10602. Sphagnum

On wet sandstone ledges.

(1)

10603 -

On dry sandstone rock.

(2)

10604. Fissidens

On wet verticle sandstone.

(5)

10605.

On soil near stream.

(4)

10606. Bryoandersonia illecebria

On soil over sandstone boulder.

(5)

10607. Trichocolea tomentella

On soil along stream.

(3)

10608. Dicranum scoparium

In woods.

(5)

10609. Pallavicinia lyelli:

On soil along stream.

(2)

10610

On soil above stream.

(2)

10611

On soil over sandstone.

(3)

10612 Fontinalis

In rocky stream.

March 12, 1992. AL: Baldwin County. Dow Island.

10613.

On soil of campground.

(6)

10614 Sphagnum

Ditch along side streets.

(2)

10615.

On live oak.

(3)

10616 . Frullania

On live oak.

(3)

10617

On Live oak.

(2)

10618

On log.

(3)

10619

On soil.

(4)

10620.

On moist soil.

(3)

10621 Ditrichum

On dry disturbed soil.

(1)

10622.

On soil over brick at Fort Gaines.

(1)

10623.

Base of tree at swamp.

(1)

10624.

(1)
10625

(2)
10626.

On live oak.

(1)
10627.

(3)
10628

On log.

(3)
10629.

On live oak.

(1)
10630. Frullania
on live oak.

(2)
10631.

On live oak.

(2)
10632.
On live oak.

(4)
10633.
On disturbed soil.

(3)
10634. Leucobryum

On base of dead oak tree.

(5)
10635.

On live oak.

(2)
10636.

On disturbed soil.

(2)
10637.

On rotting log.

(1)
10638.

On disturbed soil.

(3)
10639. Funaria

On previously burned soil.

(1)
10640

On base of dead tree.

10641. Fuscellaria

On live oak.

(3)
10642.

On live oak.

(3)
10643.

On disturbed soil.

(4)
10644. Sphagnum

In ditch and street.

(3)
10645

On rotted log.

(5)
10646.

On disturbed soil.

(5)
10647

On wet soil near swamp.

(3)
10648.

On disturbed soil.

March 12, 1992. Ms. Copiah Co. ca. 18.0 km north of
Brookhaven at rest stop off I-55.

(3)
10649.

On disturbed soil beneath oaks.

(2)

10650.

On oak.

(3)

10651.

On soil.

(5)

10652

On soil.

(2)

10653.

On soil.

(3)

10654. Ditrichum

On soil.

()

10655. Nota:

On soil.

(2)

10656.

On soil.

March 23, 1992. Peru

Explorers Lodge

Bushmaster Trail.

(2)

10657

On trunk of tree ca. 1m high. Secondary Forest.

(1)

10658

On base of tree. Secondary Forest.

(3)

10659

On Ginger leaves in Secondary Forest.

(3)

10660.

On decaying log of secondary forest.

(1)

10661.

On liana of secondary forest.

(3)

10662.

On very deteriorated log of secondary forest.

(1)

10663.

On trunk of tree of secondary forest.

- (1)
10664.
On tree trunk of secondary forest.
- (2)
10665.
On fronds of tree fern in 2° forest.
- (2)
10666.
On tree trunk about 1.5 m up in Secondary forest.
- (2)
10667.
Epiphylls in primary (1°) forest.
- (6)
10668.
On large liana of 1° forest.
- (1)
10669.
On orchid leaves of 1° forest.
- (4)
10670
On ariel roots around tree of 1° forest.
- (4)
10671.
On liana in 1° forest.
10672.
On log.

(2)
10673.

On base of tree in 1° forest.

(2)
10674.

On base of tree of 1° forest.

(4)
10675.

On trunk of tree in 1° forest.

(4)
10676.

On decorticated log in 1° forest.

(6)
10677.

On decorticated log in 1° forest.

(2)
10678.

On liana in 1° forest.

10679.

On tree trunk

March 24, 1992. Peru:

Explorama Lodge

Lodge Area.

- (1)
10680.
on soil near bar. (Anthocerotopsida)
- (1)
10681.
On Hibiscus sp.
- (2)
10682.
On tree trunk near dock.
- (2)
10683.
On tree trunk near dock.
- 10684
On trunk of Dracaena fragrans
10685.
On trunk of Dracaena fragrans
- (4)
10686. Riccia
On soil throughout camp.

10687.

On Hibiscus sp.

(4)

10688.

On mud near bathrooms.

10689.

On trunk of Gustavia sp.

(3)

10690

On soil at base of shrub.

(4)

10691.

On stump.

(4)

10692.

On soil near bridge.

(2)

10693

On trunk of Mauritia flexuosa L. (Palm)

10694.

At base of tree near La Tahumpa.

10695.

On tree trunk and tree base near dining hall.

10696.

On Gustavia sp.

10697.

On stiltroots of Iyiptes sp.

(2)

10698.

On log of trail to Sugarcane Farm.

10699.

On wooden planks in trail leading to Sugarcane Farm

10700

On tree roots near Rio Yanomona.

10701.

On rotted stump.

(b)

10702

On soil behind restrooms.

10703.

On tree along trail leading to Sugarcane Farm.

10704.

At base of Chalaya sp. (Cyclanthaceae)

10705.

On trunk and stems of Hibiscus sp.

10706.

On trunk of Gustavia sp. along trail leading
to sugarcane farm.

10707.

On Hibiscus Sp.

10708.

On stump.

10709.

On mud in Lodge area.

10709

On poles of observation deck.

10710

On poles of observation deck.

10711. Riccia

10712.

On tree trunk near Rio Yanamano.

10713.

On soil

10714.

On soil over metal drums.

10715.

On soil over metal drums.

10716.

On trunk of Xanthoxylum near stream.

10717.

On soil near restrooms.

April 14, 1992. MO:

Roaring River State Park.

w/ Linda Timme.

10718 Frullania

On LS rock along Devil's Kitchen Trail.

10719. Frullania

On 15' bluff along Devil's Kitchen Trail.

10720. Frullania

On base of Juniperus virginiana along Devil's Kitchen Trail.

10721.

^{wood}
On roof of abandoned house at beginning of Devil's Kitchen Trail.

10722.

On wood roof of abandoned house along Devil's Kitchen Trail.

10723.

On wood roof of abandoned house along Devil's Kitchen Trail.

10724. Frullania

On bark of Hophornbeam along Devil's Kitchen Trail.

10725.

On bark of Shagbark Hickory of Devil's Kitchen Trail.

10726. *Frullania*
On LS boulder along Devil's Kitchen Trail
10727.
On rock walls around fish hatchery ponds.
10728. *Fontinalis*
In spring near mouth.
10729. *Porella*
On rock along River Trail.
10730.
On rock along River Trail.

April 19, 1992. mo: McDonald Co. Along Elk River.
Woods east of city park, Noel, Mo.
T21N R33W S15 Long. $94^{\circ}40'15''$ Lat. $36^{\circ}33'$

w/ L. Timme

10731. *Phacelia purshii* Buckley
Flood Plain Woods

May 2, 1992. KS: Wilson Co. South of Toronto Lake
 ca. 1.0 miles; high SS bluffs on west side
 of road just south of Pig Creek.
 S. 1, R13E, T27S. Lat. Long.
 w/ Joyce Barker.

10732. Claytonia virginica - ss ridge top below oaks.

2

10733. Callitrichia terrestris Raf. On soil along wooded trail.
 New County Record!!

10734. Mnium

2

10735.

10736. Calypogeia

on moist ss below bluff at mouth of
 spring.

10737.

On White Oak.

10738. Conocephalum conicum

On ss rock below bluff at mouth of Spring.

10739 Hedwigia ciliata

On exposed ss boulders.

- 2
10740.
On rotting wood.
- 2
10741. Polytrichum
On exposed ss boulders.
- 1
10742. Atrichum angustatum
On soil along trail.
- 2
10743. Grimmia
On exposed ss boulders.
- 1
10744. Frullania
On ss boulder near mouth of spring.
- 3
10745. Aulacomnium
On soil over ss near mouth of spring.
- 1
10746.
On exposed ss - in thin soil.
- 1
10747.
On ss rocks below bluff at spring mouth.
- 2
10748. Leucobryum
In open woods.

May 2, 1992. KS: Wilson Co. ca. 2.5 miles west
 of Hiway 39 & 96 jct. on north side
 of Hwy. 96. S8 R14E T28S.
 Lat. Long. Exposed SS along
 w/ Joyce Barker. roadside.

². 10749. Nemastylis geminiflora Nutt.
 SS prairie.

² 10750. Zigadenus nuttallii A. Gray
 SS prairie

May 17, 1992. MO: Cole Co., ca. 3.8 miles west of Brazito
 along hiway 54. T42N R13W-53
 Lat. $38^{\circ} 22' 0''$ Long. $92^{\circ} 21' 30''$

10751. Penstemon cobaea var. purpureus Pennell
 Along roadside.

May 17, 1992. MO: St. Clair Co., On north side of Hwy 54
 ca. 2.25 miles east of jct. MO 13 + 54.
 T36N R24W-58. Lat. $37^{\circ} 51' 0''$ long. $93^{\circ} 35' 0''$

² 10572. Phacelia hirsuta Nutt. In ditch.

May 17, 1992. MO: Cedar Co., MO-KO prairie ca. 1.0 miles
 Northwest of Eldorado Springs. T36N R28W S23
 Lat. $37^{\circ}52'0''$ Long. $94^{\circ}02'0''$

10573. Penstemon pallidus Small

10574. Valerianella radiata (L.) Duf.

10575. Coreopsis grandiflora Hogg ex Sweet

10576. Trifolium campestre Schreb.

May 28, 1992. KS: Crawford Co. ca. 2.0 miles east of jct. KS 3
 and 57 on north side of hwy 57. T29S R23E S18.
 Roadside.

³
 10577. Penstemon cobaea

May 28, 1992. KS: Wilson Co. ca. 5.6 miles west of U.S. 75
 and K47 on south side of K47. T29S R15E S8.
 Prairie.

²
 10578. Penstemon cobaea

94

July 16, 1992. PERU -
Explorama Lodge Area.

10579

10580

10581

10582

10583.

10584

10585

10586.

10587

10589

10590

10591

10592

10593

10594

10595

96

10596.

10597

10598

10599.

July 18, 1992. Peru

Hotel Amazonas, Tiquitos

10600

August 1, 1992. Arkansas, Stone Co., Blanchard Springs,
Spring Area.

10601

10602

10603

10604.

10605.

10606.

August 9th, 1992. Peru, Loretto Departmento.
Dist. of Maynas.
ExplorNapo Camp.
Trail.

✓ 10607.

On palm fronds.

✓ 10608.

On palm fronds.

✓ 10609.

On palm fronds.

10610.

On leaves.

10611.

On leaves.

10612.

On log.

10613.

On log.

10614.

On tree w/ pinkish + whitish, scaly bark.

Melastomataceae

10615.

On tree w/ pinkish + whitish, scaly bark.

Melastomataceae

10616.

On leaves.

10617.

On ~~log~~ leaves.

100

10618.

On log.

10619. Plagiochia

On Ficus branches.

10620.

Lejeuneaceae.

10621.

Lejeuneaceae - On 10619 & 10620.

10622. Plagiochia

On tree trunk.

10623.

Lejeuneaceae.

10624.

On tree trunk.

10625.

On Melastomataceae.

10626.

On log.

10627.

On log.

10628.

On log.

10629.

On rotting leaf.

102

10630.

On leaves.

10631.

On leaves.

10632. Riccardia

On log.

10633.

On log.

10634.

On leaves.

10635.

On leaves.

10636.

On leaves.

10637.

On log.

10638.

On log.

10639.

On log.

10640.

On log.

10641.

On log.

10642.

On log.

10643.

On log.

104

10644.

On log.

August 11, 1992. PERU: Departamento Loreto; District
of Maynas.
ACEER Trail.

10645.

Lejeuneaceae - On tree trunk.

10646. Plagiochila

~~Lejeuneaceae~~

10647.

On leaves.

10648.

On leaves.

10649. Plagiochila

On trunk of small palm.

10650. Plagiochila

On palm stilt.

10651. Syrrhopodon

~~Exap~~ Calymperaceae - On palm stilt.

10652.

On leaves.

10653.

On leaves.

10654.

On leaves.

10655. Octoblepharum

On plant buttresses.

106

10656. Riccardia
On log.

10657.
Lejeuneaceae

10658. Plagiochila
On ~~the~~ trunk of palm (Jessenia batava
subsp. batava)

10659.
On palm leaf.

10660.
On palm leaf.

10661.
On log.

10662.

On log.

10663. Plagiochila

on tree branch.

10664.

On tree trunk.

10665.

On palm spines. Astrocaryum?

10666.

On plant buttress.

10667.

On plant buttress.

108

10668.

On palm fronds.

10669.

On palm fronds.

10670.

On palm fronds.

August 11, 1992. PERU: Departamento Loreto; District
of Maynas.
ACEER - Canopy Walkway

10671.

~21 m. On leaves.

10672.

~ 21m; on leaves.

10673. Syrrhopodon

~ 5m; on tree trunk.

10674.

~ 13m; on bark of tree branch.

10675.

~ 13m; on bark of tree branch.

10676.

~ 19m; on bark of tree. Lejeuneaceae.

10677.

~ 19m; on bark of tree. Lejeuneaceae.

10678.

~ 17m; on bark of tree. Lejeuneaceae.

10679.

~ 20 m; on bark of tree.

10680.

~ 20m; on bark of tree.

10681.

~ 13 m; on leaves.

10682.

~ 13. m; on leaves

10683.

~ 13 m; on leaves.

10684.

~ 13 m; on leaves.

10685.

~ 9 m; on bark.

10686.

~ 229 m; on bark.

10687.

On tree trunk; ~ 4 m.

10688.

~ 19 m.; on bark.

10689.

~ 5m; on bark.

August 12, 1992: PERU - Departamento Loreto; District of Maynas.

ExplorNapo Campground.

10690.

Lejeuneaceae - On Philodendron.

10691.

On Stump.

10692.

On Stump.

10693.

On stump of Melastomataceae.

10694.

On stump of Melastomataceae.

10695.

On leaves of Sapontaceae.

10696.

On leaves of Sapontaceae.

10697.

On leaves.

10698. Octoblepharum

On palm trunk.

10699.

On Paypayrola grandiflora (Violaceae)

10700.

~~10700~~ On Paypayrola grandiflora (Violaceae)

10701.

On Paypayrola grandiflora (Violaceae)

10702.

On Paypayrola grandiflora (Violaceae)

10703.

On Paypayrola grandiflora (Violaceae)

10704.

On Paypayrola grandiflora (Violaceae)

10705.

On Scheelea sp.

10706.

On Scheelea sp.

10707.

On Orchidaceae root mass.

10708.

On Paypaurola grandiflora (Violaceae)

10709.

On cut, rotting tree trunk.

10710.

On Palm Trunk.

10711.

On Palm Trunk.

Ex

10712.

On leaves.

10713.

On leaves.

10714.

On Marantaceae. Along ExplorNapo trail just inside forest.

10715.

On Marantaceae.

Along ExplorNapo trail just inside forest.

August. 12, 1992. PERU: Departamento Loreto; Distrito Maynas.

Home along Napo River.

10716. Octoblepharum

On trunk of Mauritia flexuosa

Arecaceae

Aug. 13, 1992. Peru: Department of Loreto.

Explorama Lodge Area.

10717.

On soil.

10718.

On soil.

10719.

On shaded soil.

10720.

On shrub.

August 14, 1992. Peru: Department of Loreto.

Bushmaster Trail at Explorama Lodge.

10721.

September 26, 1992. Al: Franklin Co., Dismals Wonder Garden
 10722. Ca. 1.2 km W. of hiway 43 off hiway 41. T8S R12W
 S27. Deep ss ravine dissected by Dismal Creek.
Magnolia / Hemlock / Maple / Beech Forest. Lat. $34^{\circ} 20' N$
 Long. $87^{\circ} 46' 30' W$

10722. *Plagiochila asplenioides* subsp. *porelloides* (Torrey ex Nees)
 Attached to rock along stream. Schust.

10723. *Pallavicinia lyellii* (Hook.) Gray
 Attached to moist rock.

10724. *Scapania nemorosa* (L.) Dum.
 Attached to rock.

10725. *Dicranum fulvum* Hook.
 Attached to rock.

10726. Vittaria lineata (L.) Sw.
On moist shaded, verticle ss.
10727. Dicranodontium denudatum (Brid.) Britt.
On rock.
10728. Bryoandersonia illecebra (Hedw.) Robins.
On sandstone rock.
10729. Syrrhopodon texanus Sull.
On sandstone boulders.
10730. Scopelophila ligulata (Spruce) Spruce.
^{rug:foliæ (Hook.) Schwaegr.}
On gum tree.
10731. Fissidens dubius P. Beauv.
On base of sweetgum
10732. Fontinalis
Attached to rock submerged in a branch of
Dismal Creek.
10733. Pellia epiphylla (L.) Corda
On moist shaded Sandstone.
10734. Dicranum flagellare Hedw.
On shaded Sandstone.

10735. Trichomanes petersii Gray
On shaded sandstone.

10736. Pellia epiphylla (L.) Corda
On shaded sandstone. Mixed with

10736a. Tetradontium brownianum (Dicks.) Schwaegr. under
ss overhang
on ceiling

September 26, 1992. AL: Winston. Natural Bridge Park.

Off Hwy 278 ca. 1.8 Km W. of jcts. 278/13/4
T. 10S R9W S24. Lat. 34° 12' N Long. 87° 27' W

10737. Trichocolea tomentella (Ehrh.) Dum.
Below ss overhang on moist soil.

10738. Diplophyllum apiculatum (Evans) Steph.
On sandstone.

10739. Riccardia multifida (L.) S.F. Gray
On sandstone.

10740. Radula obconica Sull.
On Sandstone

10741. Bryoxiphium norvegicum (Brid.) Mitt.
On moist shaded verticle sandstone.
10742. Metzgeria furcata (L.) Dum.
On Sandstone (verticle).
- 10743a. Lejeunea laetevirens Nees; Mont. mixed w/ 10742.
10743. Lejeunea
On sandstone.
10744. Plagiochila
on verticle ss boulders.
10745. Plagiochila
On Sandstone.
- 10745a. Lejeunea mixed w/ 10745
10746. Leucolejeunea clypeata (Schwein.) Evans
On Sandstone.
- September 27, 1992. AL: Marion Co., North Fork Creek
ca. 5.0 km N of jct. 187 + 43 off Hwy 43 at
Bridge. T9S R13W S34. Lat. $34^{\circ}14'30''$ N
Long. $84^{\circ}53'00''$ W.
10747. Anthoceros laevis subsp. carolinianus (L.) Schust.
On soil.

10748. Sphagnum lescurii Monopodial Complex
10749. Sphagnum bartlettianum Warnst.
- ⁵ 10750. Jubula pennsylvanica (Steph.) Evans
On wet verticle Sandstone wall.
- ⁵ 10751. Pallavicinia lyellii (Hook.) Carruth.
on wet verticle ss. mixed w/ Jubula
- ⁴ 10752. Jubula pennsylvanica (Steph.) Evans
mixed w/ Pallavicinia on wet verticle ss.
10753. Pellia epiphylla (L.) Corda
On wet verticle ss.
- ⁴ 10754. Selaginella apoda (L.) Spring
On wet ~~sand~~ sandstone ledges.
- ⁶ 10755. Asterella tenella (L.) P. Beauv.
On soil along roadside.

September 27, 1992. MS: Tishomingo Co., Tishomingo;
 State Park; on north and south side of Natchez Trace
 ca. 1.6 km and E. of Hwy 25. T5S R11E S31 Lat. $34^{\circ} 36'$
 Long. $88^{\circ} 11'$

10756. Pellia epiphylla (L.) Corda
 On rock at waterfall.

10757. Reboulia hemisphaerica (L.) Raddi:
 On concrete wall at east edge of
 swinging bridge.

10758. Frullania eboracensis Gott.
 On sandstone boulders along trail
 to waterfall.

October 15, 1992. MISSOURI, Barton Co. Ca. 2.5 miles
 South of Highway 126 on state line gravel road, 1.5 miles north
 T31S R33W S7, 8 Lat. $37^{\circ} 22'$ Long. $94^{\circ} 35'$. of Opolis, KS.
 On prairie soil.

²
 10759. Riccia hirta (Aust.) Underw.

Dec. 28, 1992. KS: Cherokee Co., ca. 0.3 mile east of hiway 107 (main hiway through Lowell). SZ9 R2SE \$34S Lat. $37^{\circ} 03' 30''$ N Long. $94^{\circ} 41' 30''$ W.
 Margin of backwater slough - Hibicus sp. abundant.
 On soil. w/ Frank Bowers.

²
 10760. Ricciocarpus natans (L.) Corda.

10761. Riccia fluitans L.

Dec. 28, 1992. OK: Ottawa Co., ca. 2.0 Km south of KS/OK State Line and east of Five Mile ca. 1.3 Km. Roadside bank of oak/hickory forest.
 SZ3 R24E T29N Lat. $36^{\circ} 58' 30''$ N
 Long. $94^{\circ} 40' 00''$ W. w/ Frank Bowers

³
 10762. Reboulia hemisphaerica (L.) Raddi:
 On soil of cut roadsidebank.

10763. Anthoceros laevis subsp. carolinianus (L.) Schust.
 On soil of cut roadbank.

December 28, 1992. KS: Montgomery Co., Montgomery County
 State Fishing Lake, ca. 6.0 Km. South of H160 in
 Independence and ca. 0.8 Km east of hiway FAS 475.
 S19 R16E T33S. Lat. $37^{\circ} 09' 50''$ Long. $95^{\circ} 41' 00''$.
 w/ Frank Bowers

- ³⁶⁰⁹⁰
 10764 Fissidens obtusifolius Wils. on soil in crevices
 of ss. rock.
- ³
 10765. Anomodon minor (Hedw.) Fürnr. on soil over
 sandstone. Abundant.
- ²
 10766. Reboulia hemisphaerica (L.) Raddi. on soil
 over ss among Andropogon and Panicum.
 Abundant
- ¹
 10767. Entodon seductrix (Hedw.) C.M. on rotting wood.
 Abundant in wooded draw.
10768. Hygroamblystegium fluvatile (Hedw.) Loeske
 On rocks in stream of draw emptying
 into lake. Abundant.
- ⁴
 10769 Oxymitra paleacea A. Bisch.
 on soil over sandstone. Exposed. Abundant.

10770. Fissidens fontanum (B.-Pyl.) Steud.
Attached to SS rock below bridge in
intermittent stream.
10771. Thelia lescurei Sull.
On soil over sandstone at margin of SS rock
and vegetation.
10772. Orthotrichum pusillum Mitt. On dead, fallen
Quercus sp. branches in draw near lake.
10773. Fissidens obtusifolius Wils. On thin soil over
SS boulder sprayed by water.
- ⁶
10774. Mannia fragrans (Balbis) Frye & Clark on soil
over sandstone; exposed, abundant.
10775. Mnium cuspidatum Hedw.
On soil at base of SS ledge.
10776. Campylium hispidulum (Brid.) Mitt. On bark at base
of Carya sp. In draw near lake.
10777. Reboulia hemisphaerica (L.) Raddi: on soil over
exposed SS rock.

10778. Tortella humilis (Hedw.) Jenn. On bark at base of Quercus sp., in draw near lake. Abundant.
10779. Fissidens obtusifolius Wils. On thin soil over moist ss.; w/ sporophytes.
10780. Philonotis fontana (Hedw.) Brid. On soil over rocks in intermittent stream of a draw near lake.
10781. Frullania eboracensis Gott. On bark of Quercus sp.
10782. Frullania inflata Gottsche in G.L. + N.
On bark of Quercus sp.
10783. Fabronia ciliaris (Brid.) Brid.
On bark of Quercus sp.

December 29, 1992. KS: Montgomery Co., ca. 5.6 km south of Hiway 160 and 4.0 km east of FAS 475. S 16 R16E T33S. Lat. $36^{\circ}10'15''$ N Long. $95^{\circ}40'00''$ W.
Sandstone ravine, post oak forest.

10784. Hedwigia ciliata (Hedw.) P. Beauv.
Abundant on Sandstone.

⁴
10785. Oxymitra paleacea A. Bisch. on soil over exposed sandstone of bluff top.

10786. Riccia hirta (Aust.) Underw. on soil over exposed sandstone of blufftop. Mixed w/ Oxymitra paleacea

10787. Atrichum angustatum (Brid.) Bruch & Schimp. in B.S.G.
On soil over moist sandstone in draw.

⁴
10788. Polytrichum juniperinum Hedw.
On sandy soil at base of Juniperus over sandstone rock.

⁵
10789. Reboulia hemisphaerica (L.) Raddi: on Sandstone boulder in deep ravine.

10790. Bartramia pomiformis Hedw. on soil over roots at base of sandstone bluff.

10791. Anomodon rostratus (Hedw.) Schimp.
On soil over sandstone.

² 10792. Frullania riparia Hampe ex Lehm.
On sandstone boulders.

² 10793. Calypogeia muelleriana (Schiffn.) K. Muell.
In crevice of wet ^{verticile} sandstone of ravine.

10794. Tortula pagorum (Milde) De Not
On Quercus sp. of south-facing slope.

² 10795. Bryoandersonia illecebria (Hedw.) Robins.
On soil over sandstone in ravine.

² 10796 Anthoceros laevis subsp. carolinianus (L.) Schust.
On ledge of wet sandstone, in ravine.
Mixed w/ Philonotis sp. and 10795.

10797. Eucladium verticillatum (Brid.) BSG
On wet calcareous sandstone.

10798. Frullania inflata Gotsche in G.L. & N.
Abundant on Quercus sp.

10799. Leucodon julaceus (Hedw.) Sull.
On post oak.

10800.

Under moist sandstone ledge.

3

10801. *Frullania inflata* Gottsche in G.L. & N.

Grown on and among lichens on sandstone boulders in ravine.

December 29, 1992. KS: Montgomery Co., ca. 1.0 km west of LeHunt, 5.6 km west of Hiway 75 and 5.6 km north of Hiway 160. S9 R15 E T32 S. Lat. $37^{\circ}17'00''$ Long. $95^{\circ}46'00''$. Limestone outcrops and blufftop along trail at damsite overlook.

10802. *Schistidium agassizii* Sull. & Lesq. in Sull.

³ 10803. *Frullania inflata* Gottsche in G.L. & N. on cedar of blufftop. Fruiting.

10804. *Leucodon julaceus* (Hedw.) Sull. on cedar of blufftop.

10805. *Orthotrichum strangulatum* P.-Beauv. on limestone boulders overlooking lake. Fruiting.

10806. *Astomum phascoides* (Hook. ex Drumm.) Grout. on soil beneath cedars at edge of field.

10807. Porella platyphylla (L.) Pfeiff.

On bark of Quercus of blufftop near trail head.

10808. Entodon seductrix (Hedw.) C.M.

On rotting wood just off trail. Fruiting

10809. Bryum argenteum Hedw.

On sandstone along trail.

10810. Anomodon minor (Hedw.) Fürnr. At base of Quercus sp.

10811. Fabronia ciliaris (Brid.) Brid. on bark of

Cedar on blufftop.

10812. Reboulia hemisphaerica (L.) Radd:

On soil of blufftop along trail.

10813. Fissidens subbasilaris Hedw.

On limestone rocks.

10814. Ephemerum crassinervium (Schwaegr.) Hampe

On soil over limestone of trail. Fruiting.

January 24, 1993: KS: Cherokee

w/ Linda, Caleb & Zachary

10815. Grimmia

on limestone boulder.

10816. Ditrichum pallidum

On soil in park.

10817.

10818

10819.

10820. Entodon seductrix

10821. Atrichum angustatum

10822.

On rock in stream from cave entrance.

January 31, 1993. KS: Cherokee County.

w/ Bryology Class

10823.

10824.

10825.

10826.

10827. Ditrichum pallidum

10828. Frullania

On river birch.

10829.

10830.

On soil in oak/hickory woods.

10831.

10832.

On Quercus sp.

10833. Thelia

On soil at edge of rock.

10834. Atrichum angustatum

On soil in oak/hickory woods.

10835.

On concrete.

10836.

10837.

10838.

On soil over LS at base of South Facing bluff.

10839.

On soil at top of LS bluff.

10840.

On soil along road.

10841. Polytrichum

on soil at top of LS bluff.

10842.

On LS rock in stream.

10843.

10844.

On soil in woods.

10845.

On wet seepage area of verticle ls.

10846.

On soil at edge of woods + road.

10847. Polytrichum

On soil in woods on north slope of LS bluff.

10848.

March 7, 1993. KS: Crawford County. Abandoned Strip mine.

w/ Bryology Class.

10849.

On rotting wood.

10850.

On rotting wood.

10851.

At base of Osage Orange.

10852. Nenium

On log.

10853.

Base of cottonwood.

10854.

On trunk of cottonwood.

10855.

On soil.

10856.

Base of Ulmus sp.

10857.

On soil in middle of abandoned road.

10858.

On soil.

10859.

On soil near water.

10860.

On tree trunk.

10861.

• In water of intermittent stream.

10862.

On osage orange.

10863. Mnium

on well rotted log.

10864.

On log.

10865.

On concrete cover.

10866.

10867.

On sandstone rock.

10868. Brachythecium

On log and soil.

10869. Mnium

Base of Quercus sp.

10870. Leucodon julaceous

on bark of cottonwood.

10871. Thelia

On bark of cottonwood.

10872.

On rotting wood.

10873.

On bark of Pinus sp. log.

10874.

On bark of Pinus sp. log.

10875.

On log.

10876.

On Quercus sp.

10877.

10877.

On Hackberry.

10878. Entodon seductrix
on log.

10879.
Base of Quercus sp.

10880.
On stump.

10881.
Along roadside of open area.

10882.
On base of cottonwood.

March 16, 1993; KS: Cherokee County.

²
10883. Frullania
on log.

⁵
10884. Scapania nemorosa
on soil over sandstone along stream.

10885. Fontinalis

Attached to rock in stream.

2 10886. Tortula

On Elm.

10887. Campylium

on limestone.

3 10888. Climacium

On rock of rocky stream (intermittent).

10889. Fontinalis

Attached to submerged root.

10890 Ptychomitrium

On Fraxinus

(Green)

10891. Platygyrium repens (Brid.) Schimp. in B.S.G.

On decayed log.

10892. Leucobryum

On soil over sandstone.

10893. Mnium

On soil along stream.

²
10894.

On soil over sandstone.

¹
10895. Fissidens

Attached to rock in stream.

²
10896. Hypnum

On rock in stream.

¹
10897. Anomodon minor.

On soil at base of oak.

⁴
10898.

Under moist sandstone ledge.

²
10899. Leucodon julaceus

On Quercus

(Post Oak)

³
10900.

On moist sandstone ledge.

²
10901

Under wet sandstone ledge.

²
10902. Fabronia

On elm.

8.

10903. Bartramia pomiformis

On soil over ss near stream.

2

10904. FrullaniaOn Fraxinus

(Green Ash)

10905. Bryum10906. Hedwigia ciliata

On Sandstone boulders.

2
10907. Frullania

On Hickory along stream.

2
10908. Frullania

On black locust.

2
10909.

On soil at edge of stream.

2
10910.

On wet rock in stream.

8
10911. Entodon seductrixOn Fraxinus

(Green Ash)

10912. Mnium
on log.
- 2
10913. Leucodon julaceous
on base of elm.
- 1
10914. Frullania
On Persimmon
- 2
10915. Mnium
on soil over ss ledge.
- 3
10916.
On soil over rock in stream.
- 4
10917. Grimmia
over exposed sandstone.
- 2
10918. Orthotrichum
On elm.
- 3
10919. Climacium
on rock in stream.
- 2
10920. Frullania
on sandstone boulder near stream.

3

10921. Anomodon

on base of tree.

3

10922. Thelia

on soil over sandstone.

1

10923.

On sandstone ledge.

2

10924. Frullania

on locust along stream.

3

10925. Frullania

On locust along stream.

March 21, 1993. PERU: Department of Loreto.

Explorama

about 50 miles downstream

from Iquitos.

10926.

On Hibiscus sp.

10927. Riccia

On soil along pathways in Lodge area.

10928. Anthoceros

On soil near Bano.

10929.

On soil near Bano.

10930. Riccardia

On soil near bano.

10931. Riccia

On soil along pathway in Lodge area.

10932. Riccia

On soil near bano.

10933. Fissidens

On soil near bano.

10934.

On Theobroma leaves.

10935.

On Theobroma leaves.

March 22, 1993. Peru: Department of Loreto.
Flooded forest near Shimigai Lake.

10936. Plagiochila

On base of tree trunk at water level.

10937.

On base of tree trunk at water level.

10938.

On base of tree trunk at water level.

March 24, 1993. PERU: Department of Loreto.
Flooded forest near Shimigai Lake.

10939.

On tree trunk in flooded forest.

10940.

On tree trunk in flooded forest.

10950.

On tree trunk in flooded forest.

10951.

On leaf.

10952.

On log in flooded forest.

10953.

On log in flooded forest.

10954. Plagiochila

On log in flooded forest.

10955. Plagiochila

On log in flooded forest.

10956. Riccardia

On log in flooded forest.

10957.

On log in flooded forest.

10958.

On log in flooded forest.

10959.

On well rotted log in flooded forest.

10960.

On leaf of branches overhanging flooded forest.

10961.

Epiphyllous on branches overhanging flooded forest.

10962.

Epiphyllous on branches overhanging flooded forest.

March 27, 1993. PERU, Department of Loreto.
Napo (Explorama) Camp.

10963. Octoblephrum
On palm.

10964. Fissidens
On clay exposed soil.

10965.
On well rotted log.

10966. Riccardia
on exposed clay soil.

10967. Riccardia
mixed with Fissidens; on exposed clay soil.

10968.
On soil along steps to boat dock.

10969.

On rotted log at edge of forest.

10970.

On leaf in forest near Napo Camp.

10971.

Fern. On clay soil in camp area.

10972. Octoblepharum

On clay soil in camp area; Mixed w/ 10973

10973.

On clay soil in camp area; mixed w/ 10972.

10974.

On palm trunk.

10975.

On coffee leaves.

10976.

On Bauhinia leaves.

10977. Bauhinia guianensis Aubl.
In forest near Napo Camp.

April 7, 1993. KS: Crawford Co., field north of
Ford Street ca. .1 m west of Rouse Street.
Edge of parking area.

w/ Caleb Timme

10978.

10979.

April 17, 1993. MO:
Pickle Springs

10980 Porella

On rock.

10981.

On rock.

10982. Leucobryum
on SS in "the slot".
10983. Thuidium delicatulum
on SS.
- 10984.
10985. Scapania
on wet SS at "the slot"
10986. Dicranum
on moist SS at "the slot."
10987. Reboulia ,
on SS at Owl's Den."
10988.
On SS.
10989. Syrrhopodon texanus
on SS.
10990. Anomodon
Base of Quercus sp.

10991. Trichocolea tomentella

base of Quercus sp.

10992.

On SS.

10993. Atrichum

10994. Scapania

on wet SS.

10995. Tetraphis

on verticle SS.

10996.

On moist SS.

10997.

On verticle SS.

10998. Lemotryum

on SS.

10999. Bartramia pomiformis

- 11,000. Bryoandersonia illecebria
on soil.
11001. Hypnum
on ss.
11002. Anomodon
Base of Quercus sp.
11003. Odontoschisma
mixed w/ Leucobryum - on ss.
11004. Plagiochila
on ss.
11005. Orthotrichum
on Quercus sp.
11006.
On rotted wood.
11007. Leucobryum
Base of Quercus sp.
11008. Sphagnum

11009. Leucobryum
On soil along stream.
11010. Sphagnum
On wet soil near stream.
11011. Odontoschisma
On ss.
11012. Thuidium
On soil.
11013. Pallavicinia lyelli
On ss - mixed w/ Leucobryum.
11014. Mnium
on ss.
11015. Bertramia
on ss.
11016. Hypnum
on ss.
11017. Polytrichum
On soil

11018. Bryoandersonia illecebrosa
On soil.
11019. Dicranum
On soil.
11020. Sphagnum
On soil near stream.
11021.
On wet ss.
11022. Hedwigia ciliata
On ss.
11023. Polytrichum
On sandy soil along bluff trail.
11024. Ditrichum pallidum
Near parking area.
11025.
On ss boulder.
11026. Polytrichum
On sandy soil over ss.

11027. Radula
On wet SS at "the slot."
11028. Mnium
On sandy soil.
11029.
On stump.
11030. Hedwigia ciliata
On SS at "the Double Arch."
11031. Fontinalis
In stream attached to rock.
11032. Aulacomnium
On sandy soil along trail.
11033.
On soil.
11034. Brachythecium
Near parking area.
11035. Climacium
On SS rock w/ water flowing over.

11036.

On sandy soil along trail.

11037.

On rotting log.

11038. Frullania

On hickory.

11039.

On soil.

11040. Sphagnum

In water near stream.

11041. FrullaniaOn Quercus sp.11042. Aulacomnium

On sandy soil.

11043. Dicranum scoparium

On soil of Oak/Hickory Woods.

11044.

On soil over SS.

11045. Sphagnum
In Stream.

11046.
On rotting wood.

April 23, 1993. MO: Jackson County; Swope Park Nature center.

11047. Anomodon
on LS rock.

11048. Anomodon
on LS rock.

11049. Leskeia
on Quercus sp.

11050. On soil
on soil of north-facing slope.

11051.
On soil of trail bank, north-facing slope.

11052. Fabronia
On Quercus sp.
11053. Porella
On LS rock.
11054. Frullania
On Quercus sp.
11055.
On soil of north-facing slope.
11056.
On soil of disturbed site.
11057.
On log.
11058. Frullania
On Quercus sp.
11059. Fissidens
On soil of ridge.
11060. Atrichum
On soil of north-facing slope.

11061. Mnium cuspidatum
on soil at base of tree.

11062. Fissidens
on soil along trail.

11063. Anomodon
Base of Quercus sp.

11064. Homomallium
on LS boulder.

11065. Taxiphyllum
on LS boulder.

11066. Orthotrichum
on LS boulder

11067. Taxiphyllum
On LS.

May 7, 1993. KS: Montgomery County. Montgomery Co.
State Fishing Lake.

11068.

On soil over ss.

11069.

Margin of ss outcrop and soil.

11070. Frullania

on cedar.

11071.

On ss.

11072.

On tree.

May 26, 1993. KS: Cherokee Co.,

Park.

w/ F. Bowers.

11073. Funaria

Open rocky area.

11074.

Bluff.

11075.

Along road in ditch.

11076. Atrichum

Along trail in ravine.

11077. A

Exposed bank along trail at trail head.

June 28, 1993. PERU; Department Loretto. Upper Rio Sucasari off Napo River.

Napo Trail.

11078.

On tree trunk.

11079.

On leaves.

11080.

Epiphyll.

11081.

On log

11082.

On log.

11083.

On log.

11084.

On log.

11085.

On log.

11086.

On log.

11087.

On branches.

11088.

On branches.

11089.

On soil of ant nest.

11090.

Epiphyll.

11091.

On tree trunk.

11092.

On tree trunk.

11093. Plagiochila

On tree trunk.

11094.

On tree trunk.

June 29, 1993. Peru; Department Loretto. Tarina
Lake off west side of Rio Napo.

11095. Agolla filiculoides Lam.

Floating

11096. Pistia

P: huama

Floating

June 30, 1993: PERU: Departmento Loretto. Amazon Center for Environmental Education and Research (ACEER).

11097.

90' (30+m) on trunk off Canopy Walkway.

11098. Plagiochila

90' (30+m) on Liana off Canopy Walkway.

11099.

85' () on tree trunk.

11100

On Asplundia fronds along trail to Canopy Walkway.

11101

On Asplundia fronds along trail to Canopy Walkway.

11102.

Epiphyll. Trail from ACEER Lodging to Sucasari.

11103.

Epiphyll. Trail from ACEER Lodging to Sucasari.

11104.

Epiphyll. Trail from ACEER building to Sucasari.

11105.

On Liana. Trail from ACEER building to Sucasari.

11106.

On tree trunk. Trail from ACEER building to Sucasari.

11107.

On tree trunk. Trail from ACEER building to Sucasari.

11108.

On liana. Trail from ACEER building to Sucasari.

11109.

On recently felled tree. Along trail from ACEER building to Sucasari.

11110.

On recently felled tree. Along trail from ACEER building
to Sucasari.

11111.

Epiphyll. Trail from ACEER building to Sucasari.

11112.

On trunk along trail from ACEER to Sucasari.

11113.

On liana along trail from ACEER to Sucasari.

11114. Plagiochila

On liana along trail from ACEER to Sucasari.

11115.

On liana along trail from ACEER to Sucasari.

11116.

On dead palm trunk ^{along trail} from ACEER to Sucasari.

11117.

On dead palm trunk along trail from ACEER to Sucasari.

11118.

On soil along trail near ACEER building.

11119.

Upper portion of a recently fallen tree off trail from ACEER building to Sucasari.

11120.

Same as 11119.

11121.

On leaf along Trail from ACEER to Sucasari.

11122.

On tree trunk along trail from ACEER to Sucasari.

11123.

Same as 11122.

11124.

On liana along trail from ACEER to Sucasari.

11125.

Epiphyll. Along trail from ACEER to Sucasari.

11126.

On trunk of tree along trail from ACEER to Sucasari.

11127.

Same as 11126.

11128.

Same as 11126.

11129. Plagiochila

On liana and tree trunk along trail from ACEER
to Sucasari.

11130.

On soil below housing at ACEER.

11131.

Same as 11130.

11132.

Same as 11130.

July 4, 1993. PERU: Departamento Loreto. Area along
the Yanamano Stream, trails and vicinity
of Explorama Lodge.

11133.

On legume trunk along Yanamano stream.

11134.

On trunk of Mauritia
Stream.

along Yanamano

11135.

Same as 11134.

11136.

Same as 11134.

11137.

Same as 11133.

11138.

Epiphyll on Selenicereus sp. (Cactaceae) at
Southern edge of Explorama Lodge along
trail to Rio Amazonas.

11139.

On trunk of Zanthoxylum sp. along
Yanamano Stream. P: hualaja

11140.

On trunk of tree along Lake trail from
Explorama Lodge.

11141.

Same as 11141.

11142.

On spines of Astrocaryum sp. along bushmaster
trail. P: Chambri.

11143.

On liana along bushmaster trail.

11144.

On soil in trail along Bushmaster trail.

11145.

On large liana across Bushmaster trail.

11146.

On large liana across Bushmaster trail.

11147.

On soil near bank closest to dining hall
at Explorama Lodge

11148.

Same as 11147.

11149. Riccia

on soil near room 55 (Leader's Rooms of
Educator's Workshop).

11150. Plagiochila

on tree trunk in Explorama Lodge area.

11151.

On soil near room 1 of Explorama Lodge.

11152.

Same as 11150.

11153.

On trunk of Crescentia sp. in Explorama Lodge,
near La Tancampa

11154.

Same as 11153.

11155.

Same as 11153.

11156.

Same as 11153.

11157.

On soil along trail and near banos
near hammock area.

August 2, 1993. Costa Rica; Provincia de Limon.

Tortuguero. Lowland rainforest.

Lat. $10^{\circ}31'N$; Long. $83^{\circ}32'W$ 11158. Ceratolejeunea valida Evans

11158a.

On trunk of tree; mixed with 11158.

11158b. Frullania caulisequa (Nees) Nees11159. Cheilolejeunea trifaria (Reinw. et al.) Miquet.

On tree trunk; mixed with 11158.

11160. Bryopteris fruticulosa T. Tayl. ssp. fruticulosa

On tree trunk; mixed w/ 11161 - 11167

11160a. Squamidium leucotrichum (Tayl.) Broth.
moss mixed w/ 11160 - 11167

✓ 11161. Stictolejeunea squamata (Willd. ex Web.) Steph.

On tree trunk; mixed w/ 11160-11167.

✓ 11162. MOSS

On tree trunk; mixed w/ 11160-11167.

11163. Lepidopilum surinamense

On tree trunk; mixed w/ 11160-11167

11164.

On tree trunk; mixed w/ 11160-11167.

11165. Meteoriidium remolifidium

On tree trunk; mixed w/ 11160-11167.

✓ 11166. Stictolejeunea squamata (Willd. ex Weber) Schiffn.

On tree trunk; mixed w/ 11160-11167.

✓ 11167. MOSS

On tree trunk; mixed w/ 11160-11166.

11167a. MOSS

✓ 11168. Plagiochila

On orchid pseudobulbs; Mixed w/ 11169-11171.

11169.

On orchid pseudobulbs, mixed w/ 11168 - 11171.

11170.

On orchid pseudobulbs; mixed w/ 11168 - 11171.

11171.

On orchid pseudobulbs ; mixed w/ 11168-11170.

✓ 11172. Frullania nodulosa (Reinw. et al.) Nees

On trees along Rio Mora; mixed w/ 11173-11175

✓ 11173. Frullania nodulosa (Reinw. et al.) Nees

On trees along Rio Mora; mixed w/ 11172-11175

✓ 11174. Frullania apiculata (Reinw. et al.) Nees

On trees along Rio Mora ; mixed w/ 11172 - 11175

* 11174a. Cheilolejeunea clausa (Nees & Mont.) Schuster

✓ 11175. Frullania nodulosa (Reinw. et al.) Nees

On trees along Rio Mora; mixed w/ 11172-11174

11176. Macromitrium punctatum

On Cocos nucifera and epiphytic fern roots.

Mixed w/ 11177-11179.

11177. Plagiochila ludoviciana Sulliv.

On Cocos nucifera and epiphytic fern roots.

11178a. Lejeunea cladogyna Evans \ mixed w/ 11176-11179

11178. Stictolejeunea squamata (Willd. ex Web.) Schiffn.

On Cocos nucifera and epiphytic fern roots. Mixed w/ moss.

11178a. Lejeunea cladogyna Evans. \ Mixed w/ 11176-11178

11179. Ceratolejeunea maritima (Spruce) Steph.

On Cocos nucifera and epiphytic fern roots. Mixed w/ 11176-11178

11179a. Macromitrium punctatum -discard- and moss.

11180. Neckeropsis undulata (Hedw.) Reichdt.

On tree in forest; mixed w/ 11181. ↗

11180a. Lejeunea cladogyna Evans. ↙

11181. Plagiochila rutilans Lindenb. ↗

On tree in forest; mixed w/ 11180. ↘

11181a. Archilejeunea parviflora (Nees) Schiffn. var. parviflora

11182. Frullania nodulosa (Reinw. et al.) Nees

on branch overhanging Rio Mora.

11183. Plagiochila

On trunk of Cocos nucifera. Mixed w/ 11184 + 11185.

11183a. Ceratolejeunea maritima (Spruce) Steph.

✓ 11184. Lejeunea laetevirens Nees; Mont.

On Cocos nucifera; mixed w/ 11183 + 11185.

11184a

11185.

On Cocos nucifera; mixed w/ 11184 + 11183.

11185a.

✓ 11185b

✓ 11186. Symbiodium transversale (Sw.) Trev.

On branches along Rio Mora; mixed w/ 11187.

✓ 11187. Plagiochila

On branches along Rio Mora; mixed w/ 11186.

✓ 11188. Bryopteris fruticulosa T. Taylor ssp. fruticulosa

On Cocos nucifera; mixed w/ 11189 - 11191.

✓ 11188a. Plagiochila

11189.

On Cocos nucifera; mixed w/ 11188 - 11191

11190

On Cocos nucifera; mixed w/ 11188 - 11191.

4✓

11191. Cheilolejeunea

On Cocos nucifera; mixed w/ 11188 - 11190.

- 4
 11192. Drepanolejeunea bidens Steph.
 On Cocos nucifera; mixed w/ 11193 | 11192c. MOSS
- ✓ 11192a. Ceratolejeunea maritima (Spruce) Steph. / 11192b. Lejeunea flava (Sw.) Nees
- ✓ 11193. Lejeunea laetevirens Nees & Mont.
 On Cocos nucifera; mixed w/ 11192.
- ✓ 11193a. Frullanoides corticalis (Lehm. & Lindenb.) van Slagern
- ✓ 11193b. Lopholejeunea subfuscata (Nees) Schiffn. | 11193c. Symbiezidium transversale (Sw.) T. M.
- ✓ 11194. Plagiochila
 On Croton sp. at lodge; mixed w/ 11195 - 11197.
- ✓ 11194a. Frullania riojaneirensis (Raddi) Spruce ↑
- ✓ 11195. Cheilolejeunea trifaria (Reinw. et al.) Mizut.
 On Croton sp. at lodge; Mixed w/ 11194 - 11197
- ✓ 11195a. Lejeunea laetevirens Nees & Mont.
- ✓ 11196. Plagiochila
 On Croton sp. at lodge; mixed w/ 11194 - 11197
- ✓ 11196a. Plagiochila
- ✓ 11197. Frullania riojaneirensis (Raddi) Spruce
- On Croton sp. at lodge; mixed w/ 11194 - 11196.
- ✓ 11197a. Plagiochila - discard -
- ✓ 11198.
 On Croton sp. at lodge; mixed w/ 11194 - 11197
- ✓ 11198a. Lejeunea laetevirens Nees & Mont. ↑
- ✓ 11198b. Syrrhopodon
- ✓ 11199. Cyclolejeunea chitonaria (Tayl.) Evans
 On dead branch overhanging Rio Mora; mixed w/ 11200
- ✓ 11199a. Drepanolejeunea
- ✓ 11199b. Symbiezidium barbiflorum (Lindenb. & Gott.) Evans
- ✓ 11199c. MOSS

11200. Cheilolejeunea adnata (Kunze) Grolle
On dead branch overhanging Rio Mora; mixed w/ 11199.
- 11200a. Caudolejeunea lehmanniana (Gott.) Evans.
- 11200b. Ceratolejeunea cornuta (Lindenb.) Schiffn.
11201. Frullania Kunzei (Lehm. & Lindenb.) Lehm. & Lindenb.
On tree in lodge area.
11202. Octoblepharum albidum Hedw.
On bamboo in lodge area; mixed w/
11203. Ceratolejeunea maritima (Spruce) Steph.
On bamboo in lodge area; mixed w/ 11203 - 11206
- 11203a. Hepatic
11204. Lejeunea laetevirens Nees & Mont.
On bamboo in lodge area; mixed w/ 11202 - 11206
- 11204a. Lejeuneaceae (Microlejeunea?) / 11204b. Lejeuneaceae
- 11205 Cheilolejeunea rigidula (Nees ex Mont.) Schust.
On bamboo in lodge area; mixed w/ 11202 - 11206
- 11205a. Lejeunea
11206. Ceratolejeunea spinosa (Gott.) Steph.
On bamboo in lodge area; mixed w/ 11202 - 11205
- 11206a. Ceratolejeunea maritima (Spruce) Steph.
11207. Leptolejeunea exocellata (Spruce) Evans
Epiphyll on Abrus precatorius L. (Legume)

11208. Diplasiolejeunea rudolphiana Steph.
on tree; mixed w/ 11209 + 11210
11209. Cyclolejeunea peruviana (Lehm. & Lindenb.) Steph.
on tree; mixed w/ 11208 + 11210
11210. Cheilolejeunea rigidula (Mont.) Schust.
on tree; mixed w/ 11208 + 11209. ↗
- 11210a. Lejeunea laetevirens Nees & Mont.
11211. Cheilolejeunea Clausa (Nees. & Mont.) Schust.
on Persea americana (Avocados, Lauraceae)
- 11211a. Ceratolejeunea maritima (Spruce) Steph.
11212. Lejeunea glaucescens G.
on Cocos nucifera; mixed w/ 11213.
- 11212a. Plagiochila hypnoidea
11213. Bryopteris filicina (Swartz) Nees
on Cocos nucifera; mixed w/ 11212.
11214. Cyclolejeunea peruviana (Lehm. & Lindenb.) Steph.
on branches along Rio Mora; assoc. w/ fern rhizomes.
mixed w/ 11215 + 11216.
11215. Cyclolejeunea peruviana (Lehm. & Lindenb.) Steph.
on branches along Rio Mora; associated w/ fern rhizomes.
mixed w/ 11214 + 11216

11216.

On branches along Rio Mora; assoc. w/ fern rhizomes.

Mixed w/ 11214 + 11215

11216a. Ceratolejeunea

11217 Symbizidium transversale (Swartz) Trevisan
on branches along Rio Mora; mixed w/ 11218 - 11220.

11218. Cheilolejeunea clausa (Nees & Mont.) Schust.

On branches along Rio Mora; mixed w/ 11217 - 11220.

11219. Ceratolejeunea

On branches along Rio Mora; mixed w/ 11217 - 11220.

11220. Lejeunea

On branches along Rio Mora; mixed w/ 11217 - 11219.

11221. Cheilolejeunea rigidula (Nees ex Mont.) Schust.

On Cocos nucifera in lodge area; mixed w/ 11222 - 11223.

11221a. Symbizidium barbiflorum (Lindemb. & Gott.) Evans.11222. Frullania

On Cocos nucifera in lodge area; mixed w/ 11221 - 11223

11223. Ceratolejeunea maritima (Spruce) Steph.

On Cocos nucifera in lodge area; mixed w/ 11221 - 11222.

11223a.

fern Growing in pot in lodge area.

11224. Odontolejeunea lunulata (Web.) Schiffn.

Epiphyll on Rutaceae.

11224a. Lejeunea - discord-

11225. Lejeunea laetevirens Nees + Mont.

On palm trunk in forest.

11225a. Lejeuneaceae

11226. Macrolejeunea cerina (Lehm. & Lindenb.) Gradvst.

On Cocos nucifera over fern rhizomes; mixed w/ 11227 + 11228.

11227. Plagiochila cf. adiantoides (Sw.) Dum.

On Cocos nucifera over fern rhizomes; mixed w/ 11226 + 11228.

11228.

On Cocos nucifera over fern rhizomes; mixed w/ 11226 + 11227.

11229. Bryopteris fruticulosa T. Taylor ssp. fruticulosa⁴

On branches overhang Rio Mora; mixed w/ 11230 - 11233.

11230. Cyclolejeunea peruviana (Lehm. + Lindenb.) Steph.⁴

On branches overhanging Rio Mora; mixed w/ 11229 - 11233.

11231. Symbiegium transversale (Sw.) Trev.

On branches overhanging Rio Mora; mixed w/ 11229 - 11233⁴.

11231a. Leptolejeunea exocellata (Spruce) Evans.

11232. Cyclolejeunea chitonaria (Tayl.) Evans.

On branches overhanging Rio Mora; mixed w/ 11229 - 11233⁴.

11232a. Bryopteris flicina (Swartz) Nees

11233. Lopholejeunea subfuscata (Nees) Steph.
on branches overhanging Rio Mora; mixed w/ 11229 - 11234.
11234. Plagiochila hypnooides Lindenb.
On branches overhanging Rio Mora; mixed w/ 11229 - 11233.
11235. Lejeunea flava (Sw.) Nees
On tree branch in lodge area; mixed w/ 11236.
- 11235a. Cheilolejeunea clausa (Nees & Mont.) Schust. 11235b. Orthostichopsis tetragona
11236. Frullania riojanensis Raddi
On tree branch in lodge area; mixed w/ 11235.
11237. Lejeunea lactevirens Nees & Mont.
On legume; mixed w/ 11238 - 11240
- 11237a. Plagiochila
11238. Cheilolejeunea trifaria (Reinw. et al.) Mizut.
On legume; mixed w/ 11237 - 11240
- 11238a. Plagiochila
11239. Frullania apiculata (Reinw. et al.) Nees
On legume; mixed w/ 11237 - 11240
- 11239a. Plagiochila
11240. Cheilolejeunea rigidula (Mont.) Schust.
On legume; mixed w/ 11237 - 11239.
- 11240a. Lejeuneaceae
11241. Lejeunea
On tree at lodge; mixed w/ 11242.
- 11241a Hepatic

11242. Plagiochila

on tree at lodge; mixed w/ 11241.

11242a. Hepatic

11243. Plagiochila

on trunk of Socratea sp. (Palmae); mixed w/ 11244
over Trichomanes punctatum • 11245.

11243a. Plagiochila

11244. Fulfordianthus evansii (Fulford) Gradst.

on trunk of Socratea sp. (Palmae); mixed w/ 11243 + 11245.

11244a. Nekemopsis undulata (Hedw.) over Trichomanes punctatum
Reichdt.

11245. Symbizidium transversale (Sw.) Trev.

on trunk of Socratea sp. (Palmae); mixed w/ 11243 + 11244.

→ 11245b. over Trichomanes punctatum • 11245b.

11245a. Bryopteris filicina (Sw.) Nees / Ceratolejeunea cornuta (Lindenb.) Schiffn.

11246. Trichomanes punctatum

on trunk of Socratea sp.

11247. Cyclolejeunea peruviana (L. & L.) Evans.

on orchid pseudobulbs and leaf bases; mixed w/ 11248 - 11249.

11247a. Lejeunea

11247b. Ceratolejeunea maritima (Spruce) Steph.

11248. Lejeunea sp.

on orchid pseudobulbs and leaf bases; mixed w/ 11247 - 11249

11249. Cheilolejeunea

on orchid pseudobulbs and leaf bases; mixed w/ 11247 - 11248

~~part of~~
~~Xerophyton~~

11250. Lejeunea cerina (Lehm. & Lindenb.) Gott. et al.
On trunk at lodge; mixed w/ 11252-11251.
11251. Lejeunea lactavirens Nees & Montagne
On trunk at lodge; mixed w/ 11251-11252.
11252. Cheilolejeunea clausa (Nees & Mont.) Schust.
On trunk at lodge; mixed w/ 11250-11251.
11253. Archilejeunea fuscescens (Hampe ex Lehm.) Fulford
On tree trunk along Rio Mora; mixed w/ 11254.
11254. Radula saccatiloba Steph.
On tree trunk along Rio Mora; mixed w/ 11253.
11255. Frullania Kunzei Lehm. & Lindenb.
On base of orchid leaves and on pseudobulbs;
mixed w/ 11256 + 11257.
11256. Symbiodium barbiflorum (Lindberg. & Gott.) Evans
On base of orchid leaves and pseudobulbs;
mixed w/ 11256 + 11257.
11257. Cheilolejeunea trifaria (Reinw.) Mizutani
On base of orchid leaves and pseudobulbs;
mixed w/ 11255 + 11256.

11258.

On tree trunk in lodge; mixed w/ 11259 + 11260.

11259.

On tree trunk in lodge; mixed w/ 11258 + 11260.

11260.

On tree trunk in lodge; mixed w/ 11258 + 11259.

11261. Symbizidium barbiflorum (Lindenb. & Gott.) Evans

On leaves of Pitcairnia sp. (Bromeliaceae); mixed
w/ 11262 + 11263.

11262. Ceratolejeunea cornuta (Lindenb.) Schiffn.

Epiphyllous on Pitcairnia sp. (Bromeliaceae); mixed
w/ 11261 + 11263.

Colejeunea diaphana Evans

11263. Aphanolejeunea truncatifolia Hook.

Epiphyllous on Pitcairnia sp. (Bromeliaceae); mixed
w/ 11261 + 11262.

11264.

On Cocos nucifera; mixed w/ 11265 + 11266.

11265.

On Cocos nucifera; mixed w/ 11264 + 11266.

11266.

On Cocos nucifera; mixed w/ 11264 & 11265.

11266a. Grammitis rostrata (Hook.) R. & A. Tryon

11267.

On spines of Astrocaryum sp.

11268. Lejeunea laetevirens Nees & Mont.

On trunk of Friartea sp..

11268a. Cheilolejeunea rigidula (Nees; Mont.) Schust.

11269.

On trunk and branches of Croton sp.;
mixed w/ 11270 - 11273.

11270.

On trunk and branches of Croton sp.,
mixed w/ 11269 - 11273.

11271.

On trunk and branches of Croton sp.,
mixed w/ 11269 - 11273.

11272.

On trunk and branches of Croton sp.,
mixed w/ 11269 - 11273.

11273.

On trunk and branches of Croton sp., mixed w/ 11269 - 11272.

11274. Chiloscolejeunea rigidula (Mont.) R.M. Schust.
On Cocos nucifera; mixed w/ 11275.
11275. Ceratolejeunea fallax (Lehm. & Lindenb.) Bonner
On Cocos nucifera; mixed w/ 11274.
11276. Plagiochila
Base of tree trunk; mixed w/ 11277 + 11278.
11277.
Base of tree trunk; mixed w/ 11276 + 11278.
11278.
Base of tree trunk; mixed w/ 11276 + 11277.
11279. MOSS
On tree trunk along Rio Mora.
11280.
Base of tree; mixed w/ 11281 - 11284.
11281.
Base of tree; mixed w/ 11280 - 11284.
11282.
Base of tree; mixed w/ 11280 - 11284

11283.

Base of tree; mixed w/ 11280-11284.

11284.

Base of tree; mixed w/ 11280-11283.

11284a. Microgramma lycopodioides (L.) Copel.
on Cocos nucifera.

August 4, 1993. Costa Rica. Provincia de Guanacaste.

Santa Elena Biological Preserve.

Lat. $10^{\circ} 15' N$; Long. $84^{\circ} 45' W$ Along trail.

11285

On exposed soil.

11286.

On tree trunk; mixed w/ 11287 + 11288

11287.

On tree trunk; mixed w/ 11286 + 11288.

11288.

On tree trunk; mixed w/ 11286 + 11287.

11289. Dumortiera hirsuta (Sw.) Nees

On soil at base of tree; mixed w/ 11290.

11290.

On soil and over 11289.

11291. Riccardia

On rotted wood; mixed w/ 11292.

11292. Symploca aspera Steph.

On rotted wood and soil mixed w/ 11289, 11290 + 11292.

11293. Plagiochila

On tree trunk; mixed w/ 11294 + 11295

11293a. Trichomanes

11294. Metzgeria decipiens Schiffn.

On fern leaf; mixed w/ 11295 + 11293.

11295. MOSS

On fern leaf; mixed w/ 11293 + 11294.

11296.

On soil.

11297. Frullania or Jubula

On tree trunk.

11298. Hymenophyllum

Fern. On tree trunk. Mixed w/ bryophytes.

11299. Trichocolea tomentella (Sw.) Gott.

On base of tree; mixed w/ 11300 - 11304.

11300

On base of tree; mixed w/ 11299 - 11304.

11301. Scapania portoricensis Hampe; Gott.

On base of tree; mixed w/ 11299 - 11304.

11302.

On base of tree; mixed w/ 11299 - 11304.

11303.

On base of tree; mixed w/ 11299 - 11304.

11304.

On base of tree; mixed w/ 11299 - 11304.

11305.

On base of tree.

11306.

On tree trunk; mixed w/ 11307 - 11309

11307.

On tree trunk; mixed w/ 11306 - 11309

11308.

On tree trunk; mixed w/ 11306 - 11309.

11309.

On tree trunk; mixed w/ 11306 - 11308

11310.

Epiphyll; mixed w/ 11311 + 11312.

11311.

Epiphyll; mixed w/ 11310 + 11312.

11312.

Epiphyll; mixed w/ 11310 + 11311.

11313.

On roadside cut on road to Santa Elena.

11314.

On Pepperomia sp.; mixed w/ 11315 + 11316.
(Piperaceae)

11315.

Epiphyll on Pepperomia sp. (Piperaceae); mixed
w/ 11314 + 11316.

11316.

Epiphyll on Pepperomia sp. (Piperaceae); mixed
w/ 11314 + 11315.

11317.

On soil.

11318.

On soil.

11319.

Epiphyll; mixed w/ 11320 + 11321.

11320.

Epiphyll; mixed w/ 11319 + 11321.

11321.

Epiphyll; mixed w/ 11319 + 11320.

11322.

On tree trunk; mixed w/ 11323 - 11324.

11323.

On tree trunk; mixed w/ 11322 + 11324.

11324.

On tree trunk; mixed w/ 11322 - 11329.

11325.

hornwort On soil.

11326. Plagiomnium

On tree base; mixed w/ 11327 - 11329

11327.

On base of tree; mixed w/ 11326 - 11329.

11328.

On base of tree; mixed w/ 11326 - 11329.

11329.

On base of tree; mixed w/ 11326 - 11328.

11330.

On base of tree; mixed w/ 11330 - 11333

11331. Metzgeria leptoneura Spruce

On base of tree; mixed w/ 11330 - 11333

11332. Ceratolejeunea confusa R.M. Schust.
On base of tree; mixed w/ 11330 - 11332.
11333. Trichocolea tomentosa (Sw.) Gott.
On base of tree; mixed w/ 11330 - 11334.
11334. Plagiochila
On base of tree; mixed w/ 11330 - 11333.
11335. Lejeuneaceae
Epiphyll; mixed w/ 11336.
11336. Metzgeria albinea Spruce
Epiphyll; mixed w/ 11335.
11337. Bazzania hookeri (Lindenb.) Trev.
On tree; mixed w/ 11338 - 11339.
11338. Plagiochila aerea Taylor
On tree; mixed w/ 11337 - 11339.
11339. Bazzania hookeri (Lindenb.) Trev.
On tree; mixed w/ 11337 - 11338.
11340. Dumontiera hirsuta (Sw.) Nees
On soil.

11341.

Fern. Mixed w/ 11342-11345.

11342. Plagiochila

On tree trunk; mixed w/ 11341-11345 - same as 11344

11343. Tricocolea tomentosa (Sw.) Gott.

On tree trunk; mixed w/ 11341-11345

11344. Plagiochila

On tree trunk; mixed w/ 11341-11345

11345. Metzgeria decipiens Schffn.

On tree trunk; mixed w/ 11341-11345

11345a. Radula Kegelii Gott. ex Stephani.11346. Monoclea gottschei Lindb.

On soil at base of tree; mixed w/ 11347.

11347. MOSS

Mixed w/ 11346.

11348. Frullania or Jabula

On tree trunk; mixed w/ 11349.

11349. Plagiochila

On tree trunk; mixed w/ 11348.

11350.

On tree trunk; mixed w/ 11351 + 11352.

11351.

On tree trunk; mixed with 11350 - 11352.

11352.

On tree trunk; mixed w/ 11350 - 11352.

August 5, 1993: Costa Rica, Provincia de Guanacaste
Monteverde Biological Preserve.
Lat. 10° 15' N ; Long. 84° 45' W

11353.

On boulders at waterfall; mixed w/ 11354 - 11356

11354. Plagiochila

On boulders at waterfall; mixed w/ 11353 - 11355

11355.

On boulders at waterfall; mixed w/ 11353 - 11356

11356. Selaginella

On boulders at falls; mixed w/ 11353 - 11355.

11357. Asterella

On soil along road to Monteverde Biological Station.

11358.

On tree trunk along road to Monteverde Biological Station;
mixed w/ 11359 - 11360

11359.

On tree trunk along road to Monteverde Biological Station;
mixed w/ 11358 - 11361

11360.

On tree trunk along road to Monteverde Biological Station;
mixed w/ 11358 - 11361.

11361.

On tree trunk along road to Monteverde Biological Station;
mixed w/ 11358 - 11360.

11362. Frullania brasiliensis Raddi

On log in crotch of tree along road to
Monteverde Biological Station; mixed w/ 11363.

11363.

On log in crotch of tree along road to
Monteverde Biological Station; mixed w/ 11362.

11364.

On soil of roadbank leading to Monteverde
Biological Station; mixed w/ 11365 - 11369.

11365.

Same as 11364; mixed w/ 11364 - 11369.

11366.

Same as 11364; mixed w/ 11364 - 11369

11367.

Same as 11364; mixed w/ 11364 - 11369

11368.

Same as 11364; mixed w/ 11364 - 11369.

11369. Marchantia chenopoda L.

Same as 11364; mixed w/ 11364 - 11368.

11370. Bryopteris filicina (Sw.) Nees in Gott. et al.
On log along trail; mixed w/ 11371.

11371. Plagiochila stricta Lindenb.
On log along trail; mixed w/ 11370.
11372. Lycopodium cernuum L.
On soil of roadcut leading to Monteverde
Biological Station.
11373.
On bark at base of Australian Pine; mixed w/
11374. Plagiochila simplex (Sw.) Lindenb.
On bark at base of Australian Pine; mixed w/ 11375.
11375. Ceratolejeunea cornuta (Lindb.) Schiffn.
On bark at base of Australian Pine; mixed w/ 11374.
11376. Orthostichella pentasticha (Brid.) W.R. Buck
On tree along trail; mixed w/ 11377 - 11379.
11377. Plagiochila
On tree along trail; mixed w/ 11376 - 11379.
11378. Plagiochila
On tree along trail; mixed w/ 11376 - 11379.
11379. Plagiochila
On tree along trail; mixed w/ 11376 - 11378.

11380. Hymenophyllum
var. ?
on tree trunk.

11381.
Epiphyll on Hymenophyllum (11380); mixed w/ 11382-11384.

11382.
Epiphyll on Hymenophyllum (11380); mixed w/ 11381-11384

11383.
Epiphyll on Hymenophyllum (11380), mixed w/ 11381-11384

11384.
Epiphyll on Hymenophyllum (11380); mixed w/ 11381-11383

11385. Symphyogyna bronniartii Tayl.
on soil along trail.

11386.
On tree along trail; mixed w/ 11387-11389.

11387.
On tree along trail; mixed w/ 11386-11389.

11388.

On tree along trail; mixed w/ 11386 - 11389.

11389.

On tree along trail; mixed w/ 11386 - 11388.

11390. MOSS

On plank buttresses; mixed w/ 11391 - 11393.

11391. MOSS - discard, SCNP-

On plank buttresses; mixed w/ 11390 - 11393.

11391a. Orthostichella pentasticha (Brid.) W.R.Buck11392. Marchesinia bractiata (Sw.) Schiffn.

On plank buttresses; mixed w/ 11390 - 11393.

11393. Plagiochila macrostachya Lindb.

On plank buttresses; mixed w/ 11390 - 11392.

11393a. Plagiochila rutilans Lindb.11394. Taxilejeunea debilis (Lehmann & Lindb.) Stephan.Festooned off branches of tree along roads leading
to Monteverde Biological Station; mixed w/ 11395.11395. Taxilejeunea debilis (Lehmann & Lindb.) Stephan.

Same as 11394; mixed w/ 11394.

11395a. MOSS

Ericaceae ^{Along} On road to MV Biological Station.

11396. Radula mammosa Spruce

Epiphyll; mixed w/ 11397 - 11398.

11397. Juhula or Frullania

Epiphyll; mixed w/ 11396 - 11398.

11398. Prionolejeunea armula (Gott.) A. Evans

Epiphyll; mixed w/ 11396 - 11397.

11399.

Epiphyll on Asplundia sp (Epiphyte) (Cyclanthaceae).

11400.

Epiphyll on Asplundia (Cyclanthaceae) - epiphyte.

11401.

Epiphyll on Asplundia (Cyclanthaceae - epiphyte).

11402.

Epiphyll on Asplundia (Cyclanthaceae - epiphyte).

11403.

On roots of tree along road to Monteverde;

mixed w/ 11404 - 11406.

11404.

Same as 11403; mixed w/ 11403 - 11406.

11405.

Same as 11403; mixed w/ 11403 - 11406.

11406.

Same as 11403; mixed w/ 11403 - 11405.

11407. Marchantia chenopoda L.

On soil along road leading to Monteverde Biological Station.

11408. Plagiochila simplex (Sw.) Lindenb.

On boulders at waterfall; mixed w/ 11409 - 11410.

11409.

On boulders at waterfall; mixed w/ 11408 - 11410.

11410.

On boulders at waterfall; mixed w/ 11408 - 11409.

11411. Riccardia fucoidea (Sw.) Schiffn.

On log at waterfall

11412. Porella swartziana (Weber) Trevis.

On tree trunk along trail; mixed w/ 11413 - 11414.

11413.

On tree trunk along trail; mixed w/ 11412 - 11414.

11414.

On tree trunk along trail; mixed w/ 11412-11413.

11414a. Trichomanes capillaceum L.
fern. Along roadside.

11415.

On tree trunk along trail; mixed w/ 11416-11417.

11416.

On tree trunk along trail; mixed w/ 11415-11417.

11417.

On tree trunk along trail; mixed w/ 11415-11417.

11418. Bryopteris filicina (Sw.) Nees in Gott. et al.

On log along road to Monteverde Biological Station;
mixed w/ 11419.

11419. Moss

On log along road to Monteverde Biological
Station; mixed w/ 11418.

11420. Pilotrichum

On sapling; mixed w/ 11421-11422.

11421. Orthostichella pentasticha (Brid.) W.R. Buck
On sapling; mixed w/ 11420 - 11422.
11422. Plagiochila simplex (Sw.) Lindenb.
On sapling; mixed w/ 11420 - 11421.
11423. Dumortiera hirsuta (Sw.) Nees
on wet soil along trail.
11424. Trichomanes capillaceum L.
On trunk of tree.
11425. Metzgeria decipiens (C. Massal.) Schiffn. & Gott.
On tree trunk; mixed w/ 11426 - 11427.
11426. Lophocolea bidentata (L.) Dumort.
On tree trunk; mixed w/ 11425 - 11427.
11427. Radula Kegelii Gott. ex Steph.
On tree trunk; mixed w/ 11425 - 11426.
11428.
On log along road to Monteverde Biological Station;
mixed w/ 11429 - 11430.
11429.
On log along road to Monteverde Biol. Sta.; mixed w/ 11428 - 11430.

11430.

On log along road to Monteverde Biol. Sta.;
mixed w/ 11428 & 11429.

11431. Lejeuneaceae

On wet boulder along road to Monteverde
Biological Station; mixed w/ 11432.

11432. Archilejeunea fuscascens (Hampe ex Lehm.) Fulford
Same as 11431; mixed w/ 11431.

11433. Lopholejeunea nigricans (Lindb.) Schiffn.
on rock
~~along roadside on soil~~; road to Monteverde Biol. Stat.

11434. Symphyogyna bronniartii Mont.

~~excellens~~
On moist boulder along road to Monteverde
Biological Station; mixed w/ 11435 - 11438.

11435. Lopholejeunea nigricans (Lindb.) Schiffn.
Same as 11434; mixed w/ 11434 - 11438.

11436. ? Lejeunea

Same as 11434; mixed w/ 11434 - 11438.

11437. Plagiochila disticha (Lehm. & Lindenb.) Lindenb.
Same as 11434; mixed w/ 11434 - 11438.

11438. Lopholejeunea subfuscata (Nees) Schiffner

Same as 11434; mixed w/ 11434 - 11437.

11439. Pallavicinia lyellii (Hook.) S. Gray

On soil along road to Monteverde Biological Station.
Mixed w/ 11440.

11440. Marchantia chenopoda L.

On soil along road to Monteverde Biological Station.
Mixed w/ 11439.

11441. Radula javanica Gott.

On base of tree; mixed w/ 11442 - 11444

11442. Metzgeria decipiens Schiffn.

On base of tree; mixed w/ 11441 - 11444.

11443. Plagiochila subflava Lindenb. ^{Simplex (Sw.) Lindenb.}

On base of tree; mixed w/ 11441 - 11444.

11444. Marchantia chenopoda L.

On base of tree; mixed w/ 11441 - 11443.

11444a. Taxilejeunea pterigonia (Lehm. & Lindenb.) Schiffn.

Australian Pine

11444b. Plagiochila rutilans Lindenb.

August 5, 1993. Costa Rica. Provincia de Guanacaste.
Monteverde. Below Monteverde Lodge in
ravine.

Lat. $10^{\circ} 15' N$; Long. $84^{\circ} 45' W$

11445. MOSS

On tree root.

11446. Lejeunea glaucescens Gott. in Gott. et al.
On boulder; mixed w/ 11447.

11447. MOSS

On boulder; mixed w/ 11446.

11448. Cheilolejeunea rigidula (Nees ex Mont.) Schust.
On dead tree across stream; mixed w/ 11449.

11449. Harpalejeunea uncinata Steph.

On dead tree across stream; mixed w/ 11448.

11450. Dumontiera hirsuta (Sw.) Nees

On soil over verticle sandstone; mixed w/ 11451.

11451. Riccardia multifida (L.) S.F. Gray

On soil over verticle sandstone; mixed w/ 11450.

11452. Homalia glabella (Hedw.) B.S.G.

On sandstone; mixed w/ 11453. moss

11453. Lejeunea cladogyna Evans.

On sandstone; mixed w/ 11452.

11453a - Moss-fragment - discard -

On sandstone; mixed w/ 11453 + 11452. moss

August 6, 1993. Costa Rica; Provincia de Heredia
Volcán Poás.

Lat. $10^{\circ}15'N$; Long. $84^{\circ}15'$

11454. Lepidozia brasiliensis Steph.

On bark.

³
11455. Lepidozia brasiliensis Steph.

On soil at base of tree.

11456. Heteroscyphus marginatus (Steph.) Fulford

On base of tree; mixed w/ 11457.

11456a. Odontoschisma longiflorum (Tayl.) Steph.

11457. Dicranella hilariana (Mont.) Mitt.

On base of tree; mixed w/ 11456.

11457a. Lepidozia patens Lindenb. / 11457b. Arachniopsis diacantha (Mont.) Howe

11458. Heteroscyphus marginatus (Steph.) Fulford

On soil; mixed w/ 11459 + 11460.

11458a. Hepatic

11459. Isotachis haematodes (Lehm. & Lindenb.) Gott.

On soil; mixed w/ 11458 - 11460.

11459a Dicranella

³ 11460. Riccardia

On soil; mixed w/ 11458 + 11459.

December 25, 1993. KS: Sumner Co.

11461. Barbula unguiculata Hedw.

On concrete blocks in ditch.

11462. Brachythecium oxycladon (Brid.) Jaeg.

On soil.

11463. Steereculus serrulatus (Hedw.) Robins.

On soil.

11463a. Amblystegium serpens (Hedw.) Schimp. in B.S.G.

11464.

Base of Hackberry.

11465. Weissia controversa Hedw.

On soil.

11466. Plagiomnium cuspidatum (Hedw.) T. Kop.

On soil.

December 26, 1993. KS: Sumner Co.

11467. Orthotrichum pumilum Sw.

On Hackberry. Celtis occidentalis

11468. Entodon seductrix (Hedw.) C. Muell.

On top.

11468a. Leskeia gracilescens Hedw.

Celtis occidentalis

March 23, 1994. PERU: Loreto: ExplorNapo Camp of Rio Sucasari (tributary of Rio Napo).

11469.

On Astrocaryum.

11470.

On leaves of Poraqueiba sericea (Icacinaceae).

11471.

On palm.

11472.

On Hyospathe.

11473.

On Oenocarpus.

11474.

On Oenocarpus.

11475.

On leaves on Coffea arabica (cultivar).

11476.

On chionanthus (Oleaceae).

11477.

On log along trail.

11478.

On Monstera sp.

11479.

On soil at ExplorNapo Camp.

11480. Selaginella

on soil at ExplorNapo Camp.

March 24, 1994. PERU; Loreto.

Ribneros home along Napo. On soil of garden.

11481.

March 25, 1994. Peru; Loreto.

Along trail off Napo leading to Shimigay Lake.

11482.

On leaves of Asplundia sp. (Cyclanthaceae).

11483.

On liana.

11484.

On spines of Bactris sp.

11485.

Epiphyll.

11486.

On branch.

11487.

On tree trunk.

11488.

On fruit of Fabaceae.

11489.

On trunk of tree.

March 26, 1994. Peru; Loreto.
ExplorNapo Camp.

11490.

Rubiaceae.

11491. Genipa

11492. Cydistia

11493.

Gentianaceae

11494. Pouraqueiba sericea
(Ficaceae)

11495. Ecclinusa

11496.

March 26, 1994. Peru; Loreto.
ACEER.

11497.

Canopy ~ 69'

11498.

Canopy ~ 72'

March 27, 1994. Peru; Loreto.
Shimigay Lake.

11499. Passiflora

growing over trees at edge of lake.

11500. Clusia

Growing at edge of lake. Medium sized tree.

11501.

Medium sized tree growing along edge of lake.

April 2, 1994. KS: Crawford Co.,

11502. Zanthoxylum

April 5, 1994. KS: Sumner Co.,

11503.

11504. Prunus

April 5, 1994. OK:
Pasture.

11505.

(Fabaceae)

11506.

(Apiaceae)

11507.

(moss)

11508

(moss)

11509.

On ulmus.

11510.

April 13, 1994. KS: Crawford Co. Pittsburg. Crack
in sidewalk and along ~~the~~ street
(McPherson).

11511. Bryum argenteum

11512

11513.

April 16, 1994. Missouri: Barry County. Butler Hollow
Glades Natural Area. Ca. 6.4 Km south of
Roaring River State Park off hiway 112.
Sugar Camp Lookout Tower of FSR 197.
T R S22. Lat. Long.
Dolomite Glades and Oak/Hickory Woods.

11514.

Over dolomitic Rock.

11515

Over soil.

11516. Leucobryum
over soil.

11517. Dicranum
over soil.

11518. Atrichum
over soil.

11519.

Over moist soil along intermittent stream.

11520.

Over dolomitic rock.

11521. *Anomodon*

At base of Quercus sp.

11522.

Over dolomitic rock.

11523.

Over dolomitic rock.

11524.

At base of Quercus sp.

11525.

On Quercus sp.

11526. Ditrichum

on rocky soil.

11527. Funaria

In crevices of exposed dolomite.

11528.

On dolomitic rock.

11529.

On dolomitic rock.

11530.

On Quercus sp.

11531

On rocky s.o.l.

11532. Bryoandersonia illecebria

On soil along intermittent stream.

11532.

On base of Quercus sp.

11533.

On dolomitic rock.

11534.

On dolomitic rock.

11535.

On base of Quercus sp.

11536. Bryum
on moist soil along stream.

11537. Frullania
on Quercus sp.

April 18, 1994. Missouri:

Prairie w/ Plant Tax Class

11537. Bryum

11538. Asterella tenuella

11539. Physcomitrium

April 19, 1994. Kansas: Crawford County. On soil
just east of PSU Physical Plant Bldg.
along west edge of house.

11540. Reboulia

April 25, 1994 - KS: Crawford County. Ca. 3.2 km east of
jct. Centennial and Roose on south side of
Centennial. Roadside Prairie Ditch.

11541. Steerecleus serrulatus (Hedw.) Robins.

* See page 245, numbers 11691 & 11692.

June 6, 1994. PERU, Department of Loreto.

Explorama Lodge

11542. Selaginella
Along Bushmaster trail, secondary forest.

11543.
Along Bushmaster trail, secondary forest.

11544. Fuga
Primary forest, along Bushmaster trail.

11545.
Secondary forest, along Bushmaster trail.

11546. Piper

secondary forest, along Bushmaster trail;
fruits erect, Piperaceae.

11547. Cephaelis

Secondary forest, along Bushmaster trail.
Rubiaceae.

11548. Piper

Secondary forest, along Bushmaster trail; Piperaceae
fruits pendent.

11549.

Secondary forest, along Bushmaster Trail.

11550.

Secondary forest, along Bushmaster Trail

11551.

Secondary forest, along Bushmaster Trail.

11552.

Secondary forest, along Bushmaster Trail.

11553.

Secondary forest, along Bushmaster Trail.

11554.

Secondary forest, along Bushmaster Trail.

11555.

Secondary forest, along Bushmaster Trail.

11556.

Secondary forest along Bushmaster Trail.

11557.

Secondary forest along Bushmaster Trail.

11558.

Secondary forest along Bushmaster Trail.

11559. Calyptragine

Primary forest along Bushmaster Trail. Understory palm.

11560.

Secondary forest, along Bushmaster Trail.

11561.

Secondary forest, along Bushmaster Trail.

11562. Witheringia solanacea L'Her - Solanaceae

"Urpa coconilla"

Secondary forest, along Bushmaster Trail.

11563. Selaginella

Along Bushmaster trail of Secondary Forest.

11564.

In Explorama Campground - ornamental.

11565. Allamanda cathartica L.

Apocynaceae

Explorama Campground. "Campanilla de Oro", "Canaria",

11566. Carludovica palmata R. & P.

Cyclanthaceae

"Bombonaje" - Panama Hat Palm

11567.

On Friartea in Explorama Camp. - Fern11568. Bixa orellana L. - Bixaceae

"Achote", "Achiote amarillo"

11569.

Along Bushmaster Trail of primary forest.

11570. Riccia

on soil in Explorama camp - exposed and moist.

11571.

mixed w/ 11570.

11572.

mixed w/ 11570.

11573.

mixed w/ 11570.

11574.

mixed w/ 11570

11575.

On base of Bixa orellana L. in camp.

11576.

On base of Bixa orellana L. in camp

11577.

On base of Bixa orellana L. in camp.

11578.

On Iriartea in camp.

11579.

On Iriartea in camp.

11580.

On Iriartea in camp.

11581.

On Iriartea in camp.

June 7, 1994. Peru: Dept. of Loreto.

Along Sucasari River near ExplorNapo Camp.

11582. Piptadenia suaveolens Mig. — Mimosaceae11583. Passiflora coccinea Aubl. Passifloraceae
"granadilla"11584. Cissus elata Vitaceae
"Sapohuasca"

11585.

11586. Pithecellobium
"pashaco" Mimosaceae

11587. Odontadenia macrantha (R. & S.) Marg Kraff
 Apocynaceae "Sapo huasca"

11588.

11589. Inga Mimosiaceae

11590.

11591. Pterocarpus Fabaceae

11592.

11593. Apocynaceae

11594. Miconia Melastomataceae
 "r: fari"; "mullaca"

11595.

June 8, 1994. PERU: Dept. of Loreto. Yarina Lake
near ExplorNapo Camp.

11596. Mucuna rostrata Benth. Fabaceae
"Vaca ñahui"; "Corpus sacha" Liana
11597. Combretum llewelynii: Combretaceae
"escobilla" Liana
11598. Hepaticae
On leaves of Costus sp.
11599. Gustavia Lecythidaceae
11600. Bothriospora corymbosa (Benth.) Hook. Rubiaceae
"Afasi caspi"; "yacu guinilla"
- ²
11601.
11602. Posogueria Rubiaceae
11603. Fabaceae

June 8, 1994. PERU: Dept. of Loreto.

Shimigay: Lake, near ExplorNapo Camp.

11604.

11605.

11606.

11607

Malpighiaceae

11608. Banisteriopsis

Malpighiaceae

June 9, 1994. PERU: Dept. of Loreto.

ExplorNapo Camp and area.

11609. Cassia

Caesalpiniaceae

11610. Mussatia hyacinthina (Standl.) Sandw. Bignoniaceae
"Chamayro" = Chamairo

11611.

11612.

11613.

11614.

11615.

11616.

11617.

11618.

11619

Hepaticae

on 11618.

11620.

2

11621. Fnga

2

11622. Tococa

Melastomataceae

11623.

11624

11625.

11626.

11627.

Hepaticae

on 11626.

11628.

On tree trunk.

11629.

On 11628.

Hepaticae

11630.

11631.

11632. Bauhinia guianensis Aubl. Fabaceae
"Escalera de mono" = Monkey Ladder

11633.

11634. Anthurium Araceae

11635.

Fern

11636.

Melastomataceae

11637. Tococa

Melastomataceae

11638. Antherium

Araceae

11639.

11640.

On 11639.

Hepatic

11641. Scleria flagellum-nigrorum Berg. Cyperaceae

June 9, 1994: PERU: Dept. of Loreto.

Amazon Center for Environmental Education and Research
(ACEER)11642. Riccia

on soil below facilities.

11643. Riccardia

On soil below facilities.

11644.

On soil mixed w/ 11643.

11645.

On soil mixed w/ 11643.

11646. Plagiochila

on log near facility.

11647. Plagiochila

on log near facility.

11647a. Plagiochila

on palm trunk.

11648.

On log near facility.

11649.

On trunk ca. 40'. w/ 11560 & 11561.

11650.

On trunk ca. 40' w/ 11649 & 11651

11651.

On trunk ca. 40' w/ 11649 & 11650

11652. Octoblepharum

On trunk ca. 40' w/ 11649-11651.

11653.

On log.

11654.

On log

11655.

On tree trunk, w/ 11656 - 11662.

11656.

On tree trunk, w/ 11655 - 11662.

11657.

On tree trunk, w/ 11655 - 11662

11658. Plagiochila

on tree trunk w/ 11655 - 11662

11659.

On tree trunk w/ 11655 - 11662

11660

On tree trunk w/ 11655 - 11662

11661. Octoblepharum

On tree trunk w/ 11655 - 11662.

11662.

Trichomanes

On tree trunk mixed w/ 11655 - 11661.

11663.

On tree trunk w/ 11664 + 11665.

11664.

On tree trunk w/ 11663 + 11665.

11665.

On tree trunk w/ 11663 + 11664

11666.

On leaf w/ 11667

11667.

On leaf w/ 11666

11668.

Playochila

On tree trunk.

11669.

On tree trunk at water line.

11670.

On tree trunk.

11671.

On tree trunk.

11672.

On tree trunk.

11673. Plagiochila

on branches overhanging stream.

11674.

On log along trail.

11675. Octoblephrum

On log near tree base along trail.

11676.

On tree trunk w/ 11677 - 11683.

11677.

11678.

11679

244

11680.

11681.

11682.

11683.

on tree trunk w/ 11676 - 11682.

11684.

Epiphyllous.

11685

Epiphyllous w/ 11686 & 11687

11686.

Epiphyllous w/ 11685 + 11688

11687.

Epiphyllous w/ 11686 & 11685,

11689.

On small liana w/ 11690.

11690.

On small liana w/ 11689.

May 15, 1994. KS: Barber County. ca. 2.6 km SW of
Medicine Lodge and 1.6 km S. of #160. R 12W ~~S~~ T32S
S16. Lat. $37^{\circ}16'N$ and $98^{\circ}16'E$
Gypsum Hills.

Rocky, mixed shortgrass prairie.

11691. Linum pratense (Nort.) Small

11692. Sisyrinchium montanum Greene

11693. Hymenoxys scaposa (DC.) Parker.

June 25, 1994. MO: Atchison County; ca. 8.8 km North of
Watson. T66N R42W S2. Lat. $40^{\circ}34'N$ Long. $90^{\circ}35'W$.
Loess Mounds, Prairie. w/ MoNPS.

11694.

On soil.

11695. Bryum argentum
On soil.

11696.
On soil

11697.
On soil.

11698.
On soil.

11699.
On soil.

11700
on soil.

11700a. Leonurus cardiaca L. Near parking lot.

July 14, 1994. KY: Trigg Co.; Barkley State Resort Park on east side of Land Between the Lakes .
ca. 8.0 Km west of Cadiz.
w/ Timme Family. In campsite.

11701. Bryoandersonia illecebria
On soil.

11702. Atrichum angustatum
on soil.

11703. Scapania nemorosa

on soil.

11704.

on soil.

11705.

on soil.

July 14, 1994. TN: Cumberland Co.; ca. 8.0 Km east of
Fairfield Glade. Rest area.

11706. Frullania

on Quercus sp.

11707. Leucodon

on Quercus sp.

11708. Thuidium delicatulum

11709. Atrichum angustatum

July 17, 1994. NC: Chowan Co.; SE of Edenton
 and ca. 0.9 Km SSW of Hwy 32.
 ca. 0.8 Km
 Swamp.

11710. Azolla

Mixed w/ Wolffia and Lemna.

11711. Wolffia

Mixed w/ Azolla and Lemna.

July 17, 1994. NC: Chowan Co.; Yeopin Church;
 ca. .9 Km north of Yeopin Road and
 ca. 1.2 Km north of Hwy 32.

11712. Leucodon julaceus
 On Live Oak.

11713. Frullania

On live oak.

11714. Thuidium delicatulum

On ground beneath canopy of live oak.

11715. Selaginella

On ground near base of church building
on north side.

11716. Mnium

on ground near base of church building
on north side.

July 18, 1994: NC: Chowan Co.; Edenton Epis
Church Cemetery. In city of Edenton.

11717.

Gravestone, dated 1829.

11718.

Gravestone, dated 1829.

11719.

Gravestone dated 1852

11720.

On gravestone dated 1729.

July 20, 1994: NC: Dare Co.; Elizabethan Gardens
at Manteo.

11721.

On live oak.

July 21, 1994: NC: Macon Co.; Bridal Veil Fall along
Hwy 64 ca. 3.5 Km west of Highlands.

11722. Radula

On rock near falls.

11723. Pellia epiphylla (L.) Lindb.

On wet soil under overhang of falls.

11724. Sphagnum

On wet rock ledge near falls.

July 21, 1994: NC: Macon Co., Dry Falls. ca. 3.0 Km west
of Bridal Veil Falls and 6.5 Km west of Highlands.

11725. Mnium

On soil below falls.

11726. Calypogeia

On soil near falls.

11727. Pellia epiphylla (L.) Lindb.

On wet soil below falls.

11728. Fissidens

On soil over rock wall along trail to falls.

11729. Mnium

On wet soil below falls; mixed w/ 11727 & 11730

11730. Pallavicinia lyellii

On wet soil below falls; mixed w/ 11729 & 11727

3
11731. Sphagnum

On wet soil below falls.

3
11732. Conocephalum conicum

On wet soil near falls.

3
11733. Calypogeia

On rock wall leading to falls - over soil.

Jul 22, 1994. NC: Swain Co., ca. 12 Km north of Cherokee off hiway 441; Collins Gap Picnic Area.

11734. Frullania

on Persimmon.

11735. Thuidium delicatulum (Hedw.) B.S.G. var. delicatulum.
On base of Acer sp.

11736. Metzgeria crassipilis (Lindb.) Evans
on trunk of Acer sp. saccharum

11736a. Frullania appalachiana Schust.

11737. Frullania asagrayana Mont.
on trunk of Acer sp. saccharum

11738. Anomodon rostratus (Hedw.) Schimp.
on base of Acer sp.

11739. Entodon seductrix (Hedw.) C. Müll.
On base of Acer sp.

11740.

on trunk of Acer sp.

11741.

on trunk of Acer sp.

11742.

On trunk of Acer sp.

11743.

On trunk of Acer sp.

July 22, 1994: NC: Swain Co., at a overlook ca. 0.8 Km south of Tennessee line along hiway 441.

11744. Mium marginatum (with.) Brid. ex P. Beauv.
on soil.

July 23, 1994. MO: Shannon Co., ca. 8.0 Km west of Eminence off hiway 106 at Alley Springs.
Trail near Old Grist Mill.

11745. Frullania eboracensis Gott.
on Juniperus

11746. Frullania
on trunk of tree.

³
11747. Frullania riparia Hampe
Over limestone rock.

11748. Amblystegium tenax (Hedw.) Jenn. v. spinifolium (Schimp.) Jenn.
Attached to rock below water surface of Alley Spring
trace.

^{OK}
August 5, 1994: KS: Cherokee County. ca. 3.2 km S. ~~of~~
and .08 km SW of West Mineral. T31S R23E S18.
LAT: $37^{\circ}15'00''N$! LONG: $94^{\circ}55''30''W$
Strip Pit - Floating & Stranded on mud.
w/ Bruce Robinson & Alan Ross.

11749. Ricciocarpus natans (L.) Corda

^{OK}
August 6, 1994. KS: Sumner County. ca. 4.8 km west
and 2.5 km south of Caldwell. T 35S R 3W S 18 S $\frac{1}{2}$
Lat. $37^{\circ}00'30''N$ Long $97^{\circ}40'05''W$.
Old Field and Pasture. w/ Linda, Caleb, Zach Timme

11750. Tragia ramosa Torr. EUPHORBIACEAE

² 11751. Bouteloua gracilis (H.B.K.) Lag. ex Griffiths
Poaceae

² 11752. Bouteloua curtipendula (Michx.) Torr.
POACEAE

- ² 11753 Artemisia ludoviciana Nutt. var. mexicana (Willd.) Fern. ASTERACEAE
11754. Lycopus americanus Muhl. ex Bart. LAMIACEAE
- 11755 Ambrosia psilostachya DC. Asteraceae
- 11756 Euphorbia missurica Raf. EUPHORBIACEAE
- 11757 Polanisia dodecandra (L.) DC subsp. trachysperma (T. & G.) Itis CAPPARACEAE
11758. Euphorbia maculata L. EUPHORBIACEAE
- Aug. 7, 1994: KS: Sumner County. ca. 3.2 km west and
 1.6 km south of Caldwell. T35 S R3W S08 SW^{1/4}.
 Lat. 37°00'30"N Long. 97°40'00"W.
 Sandy bankside of Bluff Creek near bridge.
 w/ Caleb & Zach Timme
11759. Euphorbia dentata Michx. EUPHORBIACEAE
11760. Leucospora multifida (Michx.) Nutt. SCROPHULARIACEAE
11761. Eclipta prostrata (L.) L. ASTERACEAE

11762. Ammannia coccinea Rottb. Lythraceae.
11763. Mollugo verticillata L. Molluginaceae
11764. Lemma minor L. Lemnaceae
11765. Spirodela polyrhiza

^{OK} 1994
 Aug 21, ~~1980~~: MO: Lawrence Co., ca. 0.5 km west
 of jct. 39 + 96 on south side of hiway 96.
 T 29 N R 27 W S 35 NW^{1/4}.
 Long. 93° 45' W
 Lat. 37° 05' N
 Roadside Prairie to Fescue.

11766. Euphorbia dentata Michx.
11767. Physalis virginiana P. Mill.
11768. Berlandiera texana D.C.
11769. Rudbeckia subtomentosa Pursh
11770. Desmodium sessilifolium

11771. Solidago canadensis var. scabra T. & G.

OK

August 26, 1994: KS: Cherokee ca. 1.8 km west
of hiway 26 and ca. 1.6 km north of hiway
166. T34S R2SE S34 NW^{1/4}.
Lat. 37°02'N Long. 94°39'W.

w/ Frank Bowers & Alan Ross.

Oak/Hickory LS Ravine of Intermittent Stream
Bed.

✓
11772. Adiantum pedatum L. on ls ledge.

✓
11773. Lindera benzoin (L.) Bl. Bottom of ls bluff
along stream.

✓
11774. Athyrium rhizophyllum (L.) Link.
on ls ledges of bluffs.

3 ✓
11775. Rhodobryum ontariense (Kindb.) Par. in Kindb.
On soil over limestone - ledges and
bluff tops.

2 ✓
11776. Frullania inflata Gott. in G.L. & N. on soil & over
ls rock.

✓
11777. Cephalozia rubella (Nees.) Warnst. on soi.
of parking area. Mixed w/ moss.

- ✓ 11778. Frullania inflata Gott. in G.L.N. on Quercus sp.
11779. Reboulia hemisphaerica (L.) Raddi.
On soil over limestone boulder.
- 3 ✓ 11780. Platygyrium repens (Brid.) Schimp. in B.S.G.
On log across stream bed.
- 4 ✓ 11781. Rhizomnium punctatum (Hedw.) T. Kop.
On soil over ls of bluff top - oak/Hickory
- 3 ✓ 11782. Porella pinnata L. On limestone rock
of bluff and boulders in stream bed.
- ✓ 11783. Chiroscyphus profundus (Nees) Eng. & Schust.
- ✓ 11784. Frullania eboracensis Gott. on Quercus sp.
- ✓ 11785. Didymodon tophaceus (Brid.) Lisa
forming tufa over verticle ls.
- 4 ✓ 11786. Plagiomnium ellipticum (Brid.) T. Kop.
On soil over limestone.

September 9, 1994: KS - Crawford Co., ca. 2.4 km west of bypass 69 (160 + 57). On south side of Country Club Road. T. 31S R24E S12 NE^{1/4}. Lat. 37° 21' N Long 94° 44' 30" W w/ Caleb. In grassy ditch.

11786. Boltonia asteroides (L.) L'Her. var. latisquama (A. Gray) Cronq.

11787. Lycopus americanus Muhl.

September 9, 1994: KS, Crawford Co. ca. 6.4 Km west of bypass 69 (160 + 57). At edge of strip pit on south side of Country Club Road. T31S R24E S09 NW^{1/4}. Lat. 37° 21' N Long. 94° 47' 40" W. w/ Caleb.

11788. Agalinis fasciculata (Ell.) Raf.

September 9, 1994. KS - Crawford Co. ca. 6.4 km west of bypass 69 (160 + 57). On south side of road. T31S R24E S16 NW^{1/4}. Lat. 37° 20' 30" N Long. 94° 47' 45" W. w/ Caleb.

11789. Agalinis tenuifolia (Vahl) Raf.

OK

September 17, 1994. KS: Allen Co., ca. 1.4 km east of jct.
 59° 54' on north side of 54. T24S R21E S36
 Lat. 37° 55' Long. 95° 50' S
 w/ Caleb Timme. Roadside

- ³ 11790. Liatris mucronata DC
 w/ globose woody corm - rocky soil.
- ² 11791. Solidago speciosa Nutt. var. rigidiuscula T. & G.
 Rocky soil.
11792. Aster pilosus Willd.
 Rocky soil.
- ² 11793. Aster oblongifolius Nutt. on rocky soil.
- 11794 Aster paludosus Ait. subsp. hemisphericus (Alex.)
 Crone. On rocky soil.

^{ok}
 Sept. 24, 1994. MO: Newton Co., Wildcat Glade
 Labels Made
 T 27N R 33W S 27 Lat. 37° 0' N Long. 94° 36' W
 w/ L. Timme South of I-44 off Murphy Blvd (Castle Dr.)
 Elevation 278 m

- ² 11795. Riccia cavernosa A. Hoffm. emend. Raddi
 On soil of waterway.

- ✓
2 11796. Selaginella rupestris (L.) Spring.
On chert exposures.
- ✓
2 11797. Entodon seductrix (Hedw.) C. Muell.
On soil at base of Quercus sp.
- ✓
2 11798 Anomodon rostratus (Hedw.) Schimp.
On rock.
- ✓
2 11799 Thelia lescurei Sull. in Gray On soil over chert.
- ✓
2 11800. Hedwigia ciliata (Hedw.) P.-Beauv. On rock.
- ✓
2 11801. Bryum pseudotriquetrum (Hedw.) Gaertn. et al.
On soil.
- ✓
2 11802. Porella pinnata L. attached to rock in waterway.
- ✓
2 11803. Frullania eboracensis Gott. On Quercus sp.
- ✓
2 11804. Riccia hirta (Aust.) Underw. On soil along
upper trail.
- ✓
2 11805. Climacium americanum Brid. Attached to
soil over chert near intermittent stream.

11806. Grimmia laevigata (Br.-d.) Brid.
On chert.

^{OK}
Sept. 25, 1994. MO: Barton Co. Prairie State Park.
Ca. 2.3 Km north of Mindenmines (north
of MO Hiway 160); Gayfeather Trail - Prairie
(Lat. 37° 30' N Long. 94. 32' W)
T32N R33W S.20

11807. Euthamia gymnospermoides Greene

² 11808. Solidago rigida L.

³ 11809. Aster praealtus Poir. var. praealtus

11810. Aster ericoides L.

³ 11811. Aster oolentangiensis Riddell var. laevicaulis
(Fern.) A.G. Jones

² 11812. Solidago nemoralis Ait. var. longipetiolata (Mack.)
Bush Palmer
b Steyr.

11813. Aster paludosus Ait. subsp. hemisphericus
(Alex.) Cronq.

11814. Boltonia asteroides (L.) Bitter var. latisquama
 (A. Gray) Cronq.

11815. Prenanthes alba L.

11816. Eupatorium rugosum Houtt. - near brushy area-shaded.

11817. Eupatorium serotinum Michx.

11818. Eupatorium altissimum L.

11819. Solidago altissima L. var. altissima

⁰⁵
 Sept. 30, 1994. MO: Phelps Co. Along County Hwy KK
 ca. 1.0 Km west of Phelps/Crawford County Line.
 T38N R6W S12 Lat. $37^{\circ}55'N$ Long. $91^{\circ}36'W$
 w/ Ross Alan & Pebble Holt: In oak/hickory dry woods.

²
 11820. Aster patens Dry under var. patentissimus
 (Lindley) Torr. & A. Gray

11821. Aster turbinellus Lindley

Oct 6, October 6, 1994. MO: Barton Co. Prairie State Park.
 Label Ca. 2.3 km north of Mindenmine (north of I-160).
 Made Bank of intermittent stream in low area of
 Gay Feather trail. T. 32N R 33W S20
 Lat. $36^{\circ} 36'$ N Long. $93^{\circ} 36'$ W. Elev. 278m
 North of W-Central Rd and West of 150th Ln.
 11822. Fossombronia foveolata Lindb.

October 8, 1994: MO: Barry County. John and Nancy Cook residence. Ca. 0.8 km west of Hiway M and 5.6 km south of hiway 76. T23N R26W S23
 Label Lat. $36^{\circ} 36'$ Long $93^{\circ} 45'$ Elev. 299m
 Made Oak/Hickory moist woods.

11823. Aster cordifolius L. ssp. Sagittifolius
 (Wedemeyer ex Willd.) A.G. Jones
 Margin of woods along gravel road.

11824. Pellaea atropurpurea (L.) Link.
 On sandstone boulders

11825 Asplenium platyneuron var. incisum (Peeck)
 B.L. Robins.
 On sandstone boulders.

11826. Asplenium rhizophyllum L.
On sandstone boulders.

11827. Asplenium x ebenoides R.R. Scott
On sandstone boulders.

✓
11828. Bryoandersonia illecebria (Hedw.) Robins.
Growing over SS boulders

✓
11829. Entodon seductrix (Hedw.) C.Müll.

✓
11830. Anomodon rostratus (Hedw.) Schimp.

✓
11831. Anomodon attenuatus (Hedw.) Hüb.

✓
11832. Frullania inflata Gott. in G.L.+N. sensu lato
on Juniperus virginicus

✓
11833. Frullania ericoides (Nees) Nees. on Juniperus virginicus

✓
11834. Pylaisiella selwynii (Kindb.) Crum et al.
on bark of

✓
11835. Radula complanata subsp. complanata (L.) Dumort.
On shaded, moist sandstone boulders.

✓
11836. Frullania inflata Gott. in G.L.+N. sensu lato
on bark of Quercus sp.

✓ 11837. Frullania eboracensis Gott.

On hawthorn (Crataegus sp.)

✓ 11838. Orthotrichum strangulatum P. Beauv.

On sandstone boulders.

✓ ⁵⁰⁷⁸⁵ 11839. Leucodon julaceus (Hedw.) Sull.

On trunk of tree.

✓ ⁵⁰⁷⁸⁶ 11840. Frullania ericoides (Nees) Nees.

On Cercis canadensis

✓ ⁵⁰⁷⁸⁷ 11841. Brachythecium acuminatum (Hedw.) Aust.

At base of Quercus sp.

jh
October 25, 1994: MO: Jasper. ca 5.4 km east of
Rangeline (66+71), 1.8 km north and ca. 1.2 km
east. T28N R32W S 22. Lat. 37°08' N
Long. 94°28' W. Ditch along roadside.

^{2*} 11842. Heliopsis helianthoides (L.) Sweet

Var. occidentalis (T. Fisher) Steyermark.

ok

October 25, 1994. MO: Newton Co., Wildcat Glade.

T27N R33W S27 Lat. $37^{\circ} 0' N$ Ekv. ~ 278m

Long. $94^{\circ} 36' W$. — Chert Glade.

West of Hiway 86 + 43, near Shoal Creek.

✓ 11843. Polytrichum ohioense Ren. + Card.

On soil along trail in open and oak/hickory woods.

*✓ 11844. Polytrichum piliferum Hedw.

On soil in exposed areas along trail.

*✓ 11845. Cephalgiella rubella (Nees) Warnst. var. rubella

On soil below overhang of rock.

✓ 11846. Polytrichum juniperinum Hedw.

In oak/hickory woods.

3 ✓

11847. Philonotis

On moist soil below ledge.

3 ✓

11848. Leucodon julaceus (Hedw.) Sull.

on Quercus sp.

3 ✓

11849. Pylaisiella selwynii (Kindb.) Crom et al.

on Quercus sp.

✓

11850. Riccia hirta (Aust.) Underw.

On exposed soil among grasses.

OK

October 26, 1994. KS: Labette Co., Rest Antelope

Park in Oswego. T33S R21E S16 along 160/59
Lat. $37^{\circ} 10' 05''$ N Long. $95^{\circ} 00' W$

2 *✓

11851. Tortula pagorum (Milde) De Not. On Ulmus

OK

October 30, 1994. KS: Montgomery County. Ca. 5.6 Km
south of H-160 and ca. 1.6 Km east of FAS 475
at Montgomery County State Lake.B T33S R16E S.19. Lat. $37^{\circ} 08' \cancel{09}''$ N
Long. $95^{\circ} 42' W$ Elev. ca. 239m

J ✓

11852. Polytrichum juniperinum Hedw. var. juniperinum
on soil at edge of ss and woods.

4

11853. Reboulia hemisphaerica (L.) Radd.
On soil over ss.

J

11854. Riccia lamellosa Radd.On soil over ss at margin of
exposed rock. w/sporophytes

3 ✓ 11855. Bryum lisae De Not. var. cuspidatum (Bruch & Schimp.
in B.S.G.) Marg.

On soil over sandstone.

3 ✓ 11856 Oxymitra paleacea A. Bisch.
On soil over sandstone. mixed w/ Reboulia hemisphaerica
w/ sporophytes

✓ 11857. Frullania inflata Gott. in G.L. & N.
On Quercus sp. w/ sporophytes

✓ 11858. Orthotrichum pumilum Sw.
On Quercus sp. w/ sporophytes

✓ 11859. Fissidens obtusifolius Wils.
On moist to dry sandstone, shaded.

3 ✓ 11860. Riccia beyrichiana Hampe
On sandstone mixed w/ R. lamellosa w/ sporangia

11861. Bryum dichotomum Hedw.
On soil over sandstone.

4 11862. Fissidens dubius P. Beauv.
On soil over sandstone.

2 11863. Riccia dictyospora Howe
On soil over sandstone. w/ sporangia

3

11864. Asterella tenella (L.) Beauv.

On sandy soil over ss.

11865 Hygroamblystegium tenax (Hedw.) Jenn. var. tenax
On rock near stream.

11866. Mannia fragrans (Babbi) Frye & Clarke
On soil over sandstone.

11867. Fissidens obtusifolius Wils. var. obtusifolius
On wet sandstone

11868. Fissidens taxifolius Hedw.
On soil over ss below cedar.

gl

October 30, 1994. KS: Montgomery County. "Lover's Leap".
 S. Ca. ~~3.8 Km~~ ^{E. College Ave (topo road)} of ~~FAS 175~~ and ~~ca 3.9 Km east of~~ ^{Co. Rd. 4600} ca 4.8 Km
 E. + S. of ~~FAS 175~~ and 5.3 Km S. of H. 160. Lat. $37^{\circ}10'N$
~~Alt 4400~~
^{Labels made} Long. $95^{\circ}40'W$ T33S R16E S. 16. Oak/Hickory
 Ravine w/ exposed sandstone bluffs. Elev. 238 m.

3

11869. Frullania riparia Hampe ex Lehm.
On sandstone vertical bluff.

- 2 ✓ 11870. Oxymitra paleacea A. Bisch.
On exposed soil of bluff.
- ✓ 11871. Conocephalum conicum (L.) Underwood
On wet soil below bluff at end of ravine.
- 2 ✓ 11872. Anthoceros laevis L. subsp. Cardinianus (L.) Schust.
On vertical sandstone in ravine.
- 3 ✓ 11873. Solenostoma crenuliformis (Aust.) Steph.
On moist sandstone in ravine.
2. ✓ 11874. Bryoandersonia illecebria (Hedw.) Robins.
On shaded sandstone in ravine.
- 2 ✓ 11875. Chiloscyphus profundus (Nees) Eng. & Schust.
On shaded sandstone in ravine.
- ✓ 11876. Reboulia hemisphaerica (L.) Radd.
On shaded sandstone.
- ✓ 11877. Riccia dictyospora Howe.
On soil over exposed sandstone.
- 2 ✓ 11878. Aulacomnium heterostichum (Hedw.) BSG.
On soil at base of Quercus sp. in ravine.

✓

11879. Leskeia graciliscescens Hedw.
On bark of Quercus sp.

November 11, 1994. FL: Manatee County. Sarasota,
between Selby Botanical Garden and Hwy 758.

11880. Cololejeunea minutissima (Smith) Schiffn. subsp.
On Live Oak. minutissima

11881. Bauhinia
In park.

11882.

Fern

11883.

11884. Acacia

11885.

11886.

11887.

11888.

11889.

11890. Bac

11891.

11892.

11893. Quercus

11894.

11895.

11896. Tillandsia

11897. Tillandsia

11898. Helianthus debilis

11899. Bidens pilosa.

December 15, 1994: AL: Marion. New River Bridge and
 Hiway 78. On south side, below bridge
 along river. Lat. $33^{\circ} 20' N$, Long. $87^{\circ} 39' W$
 T13 S R11W S15 Along River.

Folios
made

✓
 11900. Calypogeia sullivantii Aust.

On soil of river bank.

✓
 11901. Leucolejeunea clypeata (Schwein.) Evans.

On Fagus near river.

✓
 11902. Leucolejeunea clypeata (Schwein.) Evans.

On Fagus near river.

✓
 11902a. Lejeunea cladogyna Evans

11903. Clasmatodon parvulus (Hampe) Hook. & Wil. ex Sull. in Gray

✓
 11903a. Campylium chrysophyllum (Brid.) J. Lange

✓
 11904. Metzgeria fuscata var. ulvula Nees; on soil over tree roots.

✓
 11905.

On soil

4
11906. Bryoandersonia illecebria.
On soil.

1
11907. Scapania nemorosa (L.) Dum.

ON SOIL. mixed with Brachythecium acuminatum (Hedw.) Rau & Herv.

11907a. Brachythecium acuminatum (Hedw.) B.S.G. ~~Plumosum (Hedw.) Hedw. Has others.~~ mixed w/ 11907.

11908. Radula obconica Sull.
On sandstone.

1
11909. Bartramia pomiformis Hedw.
On soil.

2
11910. Thuidium delicatulum (Hedw.) Schimp. in B.S.G. On soil.

December 15, 1994: AL: Walker County. Ca. 1.0 km east
of Carbon Hill on north side of hiway 78.
Labels
Mud
Low woods along Lost Creek.
Lat. $33^{\circ} 52' N$ Long. $87^{\circ} 30'$
T13S R9W S328

11911. Weissia controversa Hedw.
on soil.

11912. Isopterygium tenerum (Sw.) Mitt.

On Styrofoam in ditch.

11912a. Streptocarpus serrulatus (Hedw.) Robins.

- 2 ✓
 11913. Fissidens taxifolius Hedw.
 on soil.
11914. Frullania inflata var. communis Schost. ← Gott. in G.L. & N.
 on concrete cobble; w/ sporophytes.
11915. Frullania
 on bark of felled tree.
11916. Usnea mutabilis Stirz.
 Lichen; on bark of felled tree.
- 4
 11917. Steereclavus serrulatus (Hedw.) Robins.
 On carpet (underside) in ditch.
- Labels made
 December 15, 1994. AL: Jefferson County. Ca. 0.9 km
 west of Locust Fork River. in ravine on
 south side of hiway 78.
 Lat. $34^{\circ} 25' N$ Long. $86^{\circ} 40' W$
 T 14S R 5W S 30
- ✓
 11918. Cololejeunea biddlecomiae (Aust.) Evans.
 on sandstone.
- 11918a. Bryoandersonia illecebria (Hedw.) Robins.
11919. Atrichum angustatum (Brid.) Bruch & Schimp.
 on soil. in B.S.G.

11920. Rectolejeunea maxoni: Evans.
Base of Acer sp.

11921. Calypogeia sullivantii: Aust.
on soil and dead branch.

11921a. Porella pinnata L.

11922. Calypogeia sullivantii Aust. fissa (L.) Raddi
On soil.

11923. Frullania
on dead tree trunk.

11924. Leucolejeunea
On dead tree trunk.

11925. Leucodon brachypus Brid.
On dead tree trunk.

11925a. Clasmatodon parvulus (Hampe) Hook. & Wils. ex Sull. in Gray

11926.

Resur. Fern - On tree trunk.

11927. Frullania
On tree trunk.

11928. Clasmatodon parvulus (Hampe) Hook. & Wils. ex
moss, on tree trunk. Sull. in Gray

11929. Rectolejeunea mazonii: Evans.
On Carpinus

11929a. Ptychomitrium drummondii (Wils.) Sull.

11930. Frullania inflata Gott. in G.L. & N. v. communis Schuster
X On Carpinus

11930a. Clasmatodon parvulus (Hampe) Hook. & Wils. ex Sull.

11931. Porella pinnata L.

On Carpinus

11931a. Lejeunea flava (Sw.) Nees.

Jefferson Co.

December 15, 1994. AL: Tannehill Historical State Park.

Labels made
Just east southeast of county road 18.

Lat. $33^{\circ}45'N$ Long. $87^{\circ}00'W$

T. 14 S R 5 W S 33

11933. Porella pinnata L.

Attached to roots and rocks in stream.

11934. Conocephalum conicum (L.) Underwood

On rocks and soil near stream and in stream

11935. Frullania

On tree trunk.

11936. Lencolejeunea

On tree trunk.

- ✓ 11937. Porella platyphylla (L.) Pfeiff.
on tree trunk.
- ✓ 11937a. Frullania riparia Hampe ex Lehm.
- ³ 11938. Marchantia papillata subsp. inflexa (Nees et Mont.) Schust.
on soil and sandstone near Bubbling Spring.
- ✓ 11939. Frullania
On sandstone
- ✓ 11940. Frullania
On sycamore.
- ✓ 11941. Lemcolejeunea
On sycamore.
- ✓ 11942.
On soil near Bubbling Spring.
- ✓ 11943.
On soil near Bubbling Spring.
- ✓ 11944. Fissidens taxifolius Hedw.
On soil near Bubbling Spring.
- ✓ 11945. Thuidium delicatulum (Hedw.) Schimp. in B.S.G.
On soil near Bubbling Spring.
- 11945A. Taxiphyllum taxirameum (Mitt.) Fleisch.

December 16, 1994. AL: Shelby County. ca. 1.2 Km
 SW of Hiway 52 and ca. 1.1 Km south
 of Hiway 93. Dirt road just off Hwy 13.
 Lat. 33° 50' N Long. 86° 56' W
 T. 19S R4W S 24.

✓ 11946. Fissidens

on exposed soil of roadbank.

✓ 11947. Campylium

on exposed soil of roadbank.

✓ 11948. Polytrichum commune Hedw.

on exposed soil of roadbank.

✓ 11949. Entodon seductrix (Hedw.) C. Müll.

on exposed soil of roadbank.

December 17, 1994. AL: Walker County. ca. 0.5 Km
 southeast of Kansas city limit sign.
 Lat. 33° 54' N Long. 87° 33' W
 T12S R10W S.22

✓ 11950 Hypnum

on sandstone boulder.

11951. Fissidens

on sandstone boulder.

4 ✓ 11952. Metzgeria furcata (L.) Dum.

On base of tree..

3 ✓

11953. Polytrichum commune Hedw. var. perigoniale (M.) Hump.

On soil along stream.

11954. Fissidens polypodioides Hedw.

On soil along stream.

11955. Odontoschisma

On moist boulder near stream.

11956. Scapania nemorosa

On moist boulder near stream.

11957. Bazzania

On moist boulder near stream.

11958. Leucobryum glaucum (Hedw.) Angstr. in Fries

On moist boulder near stream.

3 ✓

11959. Bryoandersonia illecebrosa (Hedw.) Robins.

On sandstone boulder.

4 11960. Hypnum cypresiforme Hedw.
On sandstone boulder.

11961. Leucobryum albidum (Brid.) Lindb.
On sandstone boulder.

11962. Leucolejeunea
On tree trunk.

11963. Lejeunea
On tree trunk.

2 11964. Scapania nemorea (L.) ~~Denz~~ Grolle
On wet sandstone above stream.

11965. Thuidium delicatulum (Hedw.) B.S.G.
On wet sandstone above stream.

11966. Leucobryum glaucum (Hedw.) Ångstr. in Fries
On soil over sandstone.

11966a. Plagiomnium ciliare (C. Müll) T. Kop.

11967. Polytrichum ohioense Ren. & Card.
On soil over sandstone.

11967a. Ctenidium molluscum (Hedw.) Mitt.

11968. On soil over sandstone.

11969. *Polypodium polypodioides* var. *michauxianum*
Weath. attached to tree.

11969a. *Plagiomnium cuspidatum* (Hedw.) T. Kop.

Feb. 19, 1995. MO: Barton County. Prairie State Park.
Ca. 2.3 km north of Mindenmine (north of H-160). Lat. $37^{\circ}30'N$
Long. $94^{\circ}32'W$ T 32N R 33W S 20.

w/ Kathy Bernard

✓ *Amblystegium serpens* (Hedw.) Schimp. in B.S.G.

11970. *Streptocarpus serratus* (Hedw.) Robbins.

Carassy bank west of wooded area, north
of picnic grounds.

✓ 11971. *Amblystegium serpens* (Hedw.) Schimp. in B.S.G. var.
juratzenkianum (Schimp.) Rau & Herv.

on soil among grass on west side of woods, north
of picnic area.

✓ 11972. *Dicranella heteromalla* (Hedw.) Schimp.

on soil at edge of woods and "prairie" north of
picnic area.

✓ 11973. *Atrichum angustatum* (Br.-d.) Bruch & Schimp. in B.S.G.

on disturbed soil of picnic area.

- ✓ 11974. *Hygroamblystegium fluviatile* (Hedw.) Loeske
Amblystegium varium - (Hedw.) Lindb.
 on thin soil over root and at base of tree.
- ✓ 11975. *Brachythecium oxycladon* (Brid.) Jaeg.
 On soil in picnic area.
- ✓ 11976. *Brachythecium oxycladon* (Brid.) Jaeg. On soil in prairie.
- ✓ 11977. *Frullania inflata* Gott.
 On trunk of *Quercus* sp.
- ✓ 11978. *Bryum pseudotriquetrum* (Hedw.) Gaertn. et al.
 On soil in picnic area.
- ✓ 11979. *Bryum dichotomum* Hedw.
 On soil in disturbed grassy area.
- ✓ 11980. *Bryum pseudotriquetrum* (Hedw.) Gaertn. et al.
~~*Barbula unguiculata* Hedw.~~
 On soil in disturbed grassy area.
- 3 ✓ 11981. *Fontinalis missouriaca* Card.
 Attached to rock ~~at~~ on stream bottom.
- ✓ 11982. *Weissia controversa* Hedw.
 On soil in picnic area.

✓ 11983. Ditrichum posillum (Hedw.) Hampe ..

11983a. Ceratodon purpureus (Hedw.) Brid.

11984. Leskeia gracilescens Hedw.

On base of Quercus sp.

11985. Chiloscyphus profundus (Nees) Eng. & Schust.

On exposed tree roots along bank of stream near picnic area.

11986 Ditrichum posillum (Hedw.) Hampe.

March 25, 1995. Arkansas: Washington County - Devil's Den State Park. South of Fayetteville and west of Highway 71. T13N R31W S35 Long. $94^{\circ}15'W$ Lat. $35^{\circ}46'N$
 Labels Made off Hwy 71 w/ Linda, Caleb & Zach Dev. Den Park Rev. 310M.

11987. Climacium americanum Brid.

11988.

11989. Leucolejeunea clypeata (Schwein.) Evans.

11989a. Jubula pennsylvanica (Steph.) Evans

11990. Plagiochila asplenoides ssp. porelloides (Torrey ex Nees) Schust.
On wet sandstone boulder in stream.
11991. Jubula pennsylvanica (Steph.) Evans; on soil over wet sandstone.
- 11991a. Cololejeunea biddlecomiae (Aust.) Evans. on sandstone
- 11991b. Rodula complanata (L.) Dumort. on sandstone.
11992. Metzgeria furcata var. ulvula Nees
11993. Fissidens dubis P. Beauv.
11994. Porella pinnata L. attached to wet sandstone boulders.
- 11995.
11996. Frullania Kunzei Lehm. & Lindenb.
- 11996a. Anomodon rostratus (Hedw.) Schimp.
11997. Leucolejeunea clypeata (Schwein.) Evans.
- 11997a. Schwetschkeopsis fabronia (Schwaegr.) Broth.
11998. Philonotis
11999. Bryoandersonia illecebria
12000. Dicranum scoparium
12001. Leucobryum glaucum (Hedw.) Ångstr. in Fr.

12002. Anomodon attenuatus (Hedw.) Hueb.
12003. Scapania nemorosa (L.) Dum. on soil over sandstone.
12004. Dicranum scoparium
12005. Aulacomnium heterostichum (Hedw.) B.S.G. on soil.
12006. Reboulia hemisphaerica (L.) Radd.
on soil over sandstone
12007. Plagiochila asplenoides ssp. porelloides (Torrey ex Nees) Schust.
On wet sandstone in stream. /12007a. ^{Aulacomnium} heterostichum
12008. Bartramia pomiformis Hedw.
12009. Thuidium delicatulum (Hedw.) Schimp.
12010. Aulacomnium heterostichum (Hedw.) B.S.G. w/sporophytes
12011. Conocephalum conicum (L.) Lindb.
12012. Fissidens taxifolius Hedw.
12013. Pellia epiphylla (L.) Corda
12014. Hypnum curvifolium Hedw. On sandstone boulders.
12015. Leucolejeunea duppeata (Schwein.) Evs. On sandstone boulder.
- 12015a. Bryoandersonia leucebra (Hedw.) Robins. On sandstone boulders.

12016. Plagiochila asplenoides subsp. porelloides (Torrey ex Nees) Schust.
12017. Jubula pennsylvanica w/sporophytes
12018. Metzgeria furcata
12019. Reboulia hemisphaerica (L.) Radd.
12020. Frullania
on Juniperus
12021. Scapania nemorosa
- 12022.
12023. Atrichum angustatum (Brid.) B.S.G. var. angustatum
on soil.
12024. Metzgeria furcata var. ulvula Nees

April 15, 1995. Kansas: Sumner Co., Clifford Knight Farm south of Caldwell.

12025.

12026.

12027.

12028.

12029.

12030.

April 15, 1995. Oklahoma:
Pasture.

12031.

12032. Anemone

April 16, 1995. Kansas: Cowley County. Cowley County
State Fishing Lake.

12033

April 22, 1995. Missouri: Barton County. Prairie State Park.

12034. Cornus florida

12035.

12036. Atrichum angustatum (Brid.) B.S.G.

12037. Atrichum angustatum (Brid.) B.S.G.

12038.

on Juniperus

12039. Fissidens taxifolius Hedw.

12040. Chiloscyphus profundus

12041. Steerecleus

12042. Leskeia gracilescens Hedw. On tree trunks.

12043. Frullania eboracensis Gott. On tree trunk.

12044.

12045. Orthotrichum

12046. Plagiomnium cuspidatum (Hedw.) Kop.

12047. Chiloscyphus profundus (Nees) Eng. & Shust. on rock.

12047a. Leptodictyum riparium (Hedw.) Warnst. var. riparium

12048. Sematophyllum adnatum (Mchx.) Britt. on log.

12049. Campylium

12050. Plagiomnium cuspidatum (Hedw.) Kop.

on soil in woods - south end near entrance.

12051

12052.

12053. Aulacomnium palustre (Hedw.) Schwaegr.

On wet soil near stream.

April 29, 1995. Missouri:

Fort Osage.

On ground. w/ L. Timme

12055. Funaria

May 14, 1995. Missouri: Barry County. Roaring River State Park.

w/ L. Timme.

12056. Ligustrum

12057. Valerianella

12058 Galium virgatum Nutt. on limestone ledge.

12059. Phacelia

^{Complete}
^{Labels made}
May 18, 1995. Kansas. Leavenworth County. Ravine at
Leavenworth Military Reservation; west-central part. Elev. 900 -
1050 ft. Mesic, upland oak-hickory-maple-basswood forests on
slopes southeast of Wagner Point. Steep draws w/ few LS outcrops.
w/ F. Bowers & C. Freeman. Elev 271m

12060. Aplectrum hyemale (Muhl. ex Willd.) Torr.

12061. Berberis thunbergii DC.

12062. Thlaspi arvense L.

✓ 12063. Osmorhiza claytonii (Michx.) C. B. Clarke

✓ 12064. Rhodobryum ontariense (Kindb.) Par. in Kindb.
on soil in ravine.

✓ 12065. Amblystegium serpens (Hedw.) Schimp. in B.S.G.
Base of tree.

✓ 12066. Ectodon compressus C.M.
base of tree

✓ 12067. Brachythecium
On soil.

✓ 12068. Plagiomnium cuspidatum (Hedw.) T. Kop.
On soil.

✓ 12069. Platygyrium repens (Brid.) Schimp. in B.S.G.
off log.

✓ 12070. Frullania inflata Gott.
on Quercus

✓ 12071. Leskeia gracilecens Hedw.
On tree trunk.

✓ 12072. Plagiomnium ciliare (C. Müell.) T. Kop.

12073. Anomodon minor (Hedw.) Fürnr.

12074. Plagiomnium ciliare (C. Muell.) T. Kop. w/sporophytes

May 18, 1995. Kansas. Leavenworth County. Ft. Leavenworth
 Military Reservation, North-central part.
 Mesic bluff forest on mostly northeast facing
 slope above Missouri River floodplain.
 Disturbed sites along railroad right-of-way
 at base of bluff.

Bryophyte
Labels made
T8S, R22E, S02 SW¹/4. Elev. ~~270-890'~~ 241m

Lat. 39° 20' N Long. 94° 54' W

12075.

12076.

12077.

12078.

12079

12080.

12081.

12082.

12083.

3 ✓ completed
12084. Plagiomnium cuspidatum (Hedw.) T. Kop.

✓
12085. Chiloscyphus profundus (Nees) Eng. & Schust.

✓
12086. Funaria flavicans Michx.

✓
12087. Marchantia polymorpha L.

✓
12088. Physcomitrium pyriforme (Hedw.) Hampe

✓
12089. Anomodon rostratus (Hedw.) Schimp.

on rock.

✓
12090. Frullania ericoides (Nees) Mont.

on tree trunk.

✓
12091. Plagiomnium ciliare (C. Müll.) T. Kop.

✓
12092. Anomodon attenuatus (Hedw.) Hüb.

May 18, 1995. Kansas. Leavenworth County. Tonganoxie.
 Falls 3.0 miles east, 2 mile north. Bluff along
 Stranger Creek and sandstone outcrops
 paralleling west side of creek. Post oak-
 black jack oak woodland with scattered prairie
 openings. Seeps along outcrops.

T10S R21E S36 E 1/2 NW 1/4 + Sec. E 1/2,
 SW 1/4. Elev. 830-860 ft.

✓
 12093. Riccia campbelliana Howe.

✓
 12094. Carex grayii:

✓
 12095. Scapania

✓
 12096. Dicranum scoparium Hedw.

✓
 12097. Polytrichum commune Hedw.

✓
 12098. Frullania inflata Gott.
 on Maclura pomifera

✓
 12099. Polytrichum juniperinum Hedw.

✓
 12100. Asterella tenella (L.) P. Beauv.

12101. Chiloscyphus profundus (Nees.) Eng. & Schust.
 12101a. Scapania
 12102. Polytrichum commune Hedw.
 12103. Asterella tenuella (L.) P. Beauv.

May 18, 1995. Kansas. Leavenworth County. Ca. 3.5 miles
 east and 2.0 miles north of Tonganoxie. Localized
 sandstone outcrops on north and south sides of
 road. Area surrounded by cool-season pastures
 and crop land.

T 10 S R 22 E S 31 NW^{1/4} and Sec. 30, SW^{1/4}

12104. Phycomitrium pyriforme (Hedw.) Hampe
 3 12105. Didymodon rigidulus var. gracilis (Schleich. ex Hook. & Grev.)
 Zander

May 22, 1995. Missouri. Barton County. Prairie State Park.
 "Bog-like" area.

12106. Festuca octoflora

12107.

12108.

12109.

12110

12111.

12112. V. burnum12113. Diospyrus12114. Celastrus scandens L.

Celastraceae

12115. Prunus12116. Lobelia

12117.

12118. Cornus

12119.

12120. Erigeron

12121. Plantago

12122. Rumex

12123. Plantago

1212

May 22, 1995. Missouri. Barton County. Prairie State Park.
Campground Area.

12124. Ribes

12125.

12126.

12127.

12128. Prunus

12129.

12130. Oxalis

12131. Rosa

12132. Ptycomitrium
on Diospyros

12133. Frullania inflata Gott.
on Quercus stellata

12134. Leskeia gracilescens Hedw.

12135. Syntrichia pagorum (Milde) Amann

12136. Fabronia ciliaris (Brid.) Brid. var. ciliaris
on elm.

12137. Frullania eboracensis Gott.

On Quercus rubra; plants show the xeromorphic phase, the mod. colorata-parrifolia w/ development of caducous leaves; of Schuster.

12137a. Weissia controversa Hedw. On soil of open prairie.